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VOL 146 ISS 13 (20070321/ED) FILE COVERS 1907 - 22 Mar 2007 FILE LAST UPDATED: 21 Mar 2007 New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

Inventor search

SAKAI Y7/AU KAWASHINA Y7/AU INOUG J7/AU IKEUCHI Y7/AU L15 AND L16 AND L17 AND (LIS OR LIG OR LI7 OR I LI2 AND X/ELS SAKAI Y?/AU KAWASHIMA Y?/AU INOUE J?/AU.
IKEUCHI Y?/AU 1409.195/RID STR SEATLE-REGISTRY SSS FUL L7
3127 SEA FILE-REGISTRY ABB-ON PLU-ON 14
2974 SEA FILE-REGISTRY ABB-ON PLU-ON L1
2975 SEA FILE-REGISTRY ABB-ON PLU-ON L1
2265 SEA FILE-RICAPLUS ABB-ON PLU-ON SAM
958 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
286 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1764 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1765 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1766 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1767 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1768 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1769 SEA FILE-RICAPLUS ABB-ON PLU-ON ING
1760 SEA FILE-RICAPLUS SEA nos 119; d que nos 144;s 119,144
4681 SEA FILE=HCAPLUS ABB=ON PLU=ON KA
2265 SEA FILE=HCAPLUS ABB=ON PLU=ON KA
958 SEA FILE=HCAPLUS ABB=ON PLU=ON INI
1 SEA FILE=HCAPLUS ABB=ON PLU=ON INI
1 L18 due nos L7 L18 L113 L113 L115 L116 L117 L118 L125 L25 115 116 117 118 118

8 (L19 OR L44)

e> d ibib ed abs hitstr 145 1-8

145:413679
Megakaryocyte classification/counting method by double fluorescent staining and flow cytometry Minakami, Toshihito; Mori, Yusuke, Tsuji, L45 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2006:1065333 HCAPLUS Full-text DOCUMENT NUMBER: TITLE: INVENTOR (S):

200503 200503 APPLICATION NO. JP 2005-100004 JP 2005-100004 Tomohisa, Ikeuchi, Yoshiro Sysmex Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 11pp. CODEN: JRXXAF ------20061012 DATE Japanese Patent KIND 4 COUNT: PRIORITY APPLN. INFO.: PATENT ASSIGNEE(S): PAMILY ACC. NUM. CC PATENT INFORMATION: JP 2006275985 PATENT NO. DOCUMENT TYPE:

8 2

A method is provided for conveniently classifying/counting megakaryocytes and megakaryocyte polyploids in bone marrow aspirate with high accuracy. The method comprises: (1) adding at least two kinds of fluorescent-labeled antibodies capable of binding with megakaryocyte and different from each other in its binding epitope, and performing fluorescent staining of megakaryocytes; (2) performing centrifugal washing, and removing a supernatant; (3) adding a cell fixation liquid to fix cell membrane permeability, and performing fluorescent staining of megakaryocyte nucleus with a DNA-specific fluorescent dye; (5) applying the sample obtained by the above processes to a flow extender, and measuring at least tow contained by the above processes to a flow extender, and measuring at least tow the apple obtained by the above processes to a flow extender, and measuring at least tow the apple of the apple obtained by the above processes to a flow the apple obtained by the apple and (6) classifying/counting megakaryocytee from the fluorescence intensity difference. 166196-17-4, TOTO-3

RL: ARG (Analytical reagent use); ANST (Analytical study); USBS (Uses) H

(megakaryocyte classification/counting method by double fluorescent staining and flow cytometry)

Ouinolinium, 1,1'-[1,3-propanediylbis[(dimethyliminio)-3,1-propanediyl]bis[(-1,1-methyl-2](H)-benrothkazolylidene)-1-propenty]-, tetraiddide [9C1] (CA INDEX RAND. 166196-17-4 HCAPLUS **3** 3

PAGE 1-A

Method of staining, detecting and counting bacteria, and a diluent for bacterial stain Sakai, Yasuhiro, Kawahima, Yasuyuki, Inoue, Junya; Iteudhi, Yoshiro, Sysmex Corporation, Japan Bur. Pat. Appl. 16 pp. COORN ERXXDW Fatent Fatent Faglish L45 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STR ACCESSION NUMBER: 2002:349175 HCAPLUS Full-text DOCUMENT NUMBER: 136:352289 LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION: PATENT ASSIGNEE(S): DOCUMENT TYPE: INVENTOR(S): SOURCE: TITLE:

DATE

200110 200110 A3 20040204 B1 20050921 DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, LT, LV, FT, RO, MX, CY, AL, TR A1 20020620 US 2001-5753 APPLICATION NO. EP 2001-125418 JP 2001-335117 AT 2001-125418 20070307 20020508 20020119 KIND 2 H 2 4 R: AT, BE, CH, PT, IE, SI, US 2002076743 JP 2002202302 EP 1203825 JP 3888876 AT 305050 EP 1203825 EP 1203825 PATENT NO.

200110 200110 200110 200403 18 ES 2001-1125418 PT 2001-125418 US 2004-803667 20051130 20051216 20040909 £ 7 н US 2004175781 PT 1203825 ES 2244540

US 2001-5753

200110

MARPAT 136:352289

OTHER SOURCE(S): MARPA1 ED Entered STN: 10 May 2002 AB A method of staining bact

A method of staining bacteria comprises: working a polymethine dye on a sample in the presence of a substance capable of reducing nitrite ions to stain bacteria in the pample. A method of detecting bacteria comprises the following ateps of: (1) working a polymethine dye on a sample by a method as described above to stain bacteria in the sample, (2) introducing the thus treated sample into a detecting part of a flow cytometer and irradiating cells of the stained bacteria one by one with light to measure scattered light and fluorescent light emitted from each of the cells; and (3) discriminating the bacteria from other components in accordance with an intensity of a scattered light admains the length of particles to count the bacteria.

189148-50-3 135080-22-3 36154-17-0

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RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(method of staining, detecting and counting bacteria, and a diluent for bacterial stain)
150749-57-8 HCAPLUS
Benzochiazolium, 3-13-(trimethylammonio)propyl]-2-[5-[3-[3-[3-[trimethylammonio)propyl] -2-[5-[3-[3-[pentadiary]]-, tribromide (9c1) (CA INDEX NAME) **3** 3

Me3+N- (CH2) 3 CH - CH - CH - CH (CH2)3-N+Me3

Br.

157199-61-8 HCAPLUS Ouinolium, 4-[3-(2-methyl-2(3H)-benzothiazolylidene)-1-propenyll-1-[3-(trimethylamonio)propyl]-, diiodide (9Cl) (CA KNDEX NAME) **3** 3

200011

JP 2000-334641

PRIORITY APPLN. INFO.:

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PAGE 1-A

PAGE 2-A

CM CM

CRN 189148-49-0 CMF C22 H21 N2 O S

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335080-22-3 HCAPLUS
Benzenesulfonic acid, 4-[4-[5-(1,3-dibutylhexahydro-4,6-dioxo-2-thiox-5-pyrimidinyl)-2,4-pentadienylidene]-4,5-dihydro-1-methyl-5-oxo-1H-pyrazol-1-yl]-, compd. with N.N-diethylethanamine (1:2) (9CI) (CA INDEX NAME) 3 5

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CRN 118702-42-4 CMF C27 H32 N4 O6 S2

PAGE 1-A

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CRN 121-44-8 CMF C6 H15 N

3 3

161544-71-0 HCAPLUS

Borate(1-), difluoro(2,3,5,6-tetrafluoro-4-sulfophenyl
6-[[(4-[2-[5-1]-K])]-[15-(2-hishenyl)-2-hyrrol-2-ylidene-xN]methyl]-1Hpyrrol-2-yl-xNlethenyl]phenoxylacetyllaminolhexanoato(2-)]-,
sodium, (7-4)- (9CI) (CA INDEX NAME)

PAGE 1-A

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PAGE 1-B

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161544-72-1 HCAPLUS
Borate(1-), difluorO(2,3,5,6-retrafluoro-4-sulfophenyl
6-[[[4-[2-2]([2,2-bi-1H-pyrrol]-5-yl-kNl)methylene]-2H-pyrrol-5-yl-kNl ethenyl]phenoxyl acetyl]amino)hexanoato(2-)]-, sodium, (7-4)- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L45 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:100.41 HCAPLUS Full_text
DOCUMENT NUMBER: 155:254110
INVENTOR(S): Method for staining and detecting bacteria
INVENTOR(S): Kawashima, Yasayuki
FATENT ASSIGNEE(S): Symmer Co., Ltd., Japan
SOUNCE: CODEN: JKXXAF APPLICATION NO. DATE KIND PAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. DOCUMENT TYPE: LANGUAGE:

200103 200103 200003 200003 DATE NL, SE, MC, EP 1136563 A3 20040121 EP 1136563 B1 20066067 R: AT, BE, CH, DE, DK, ES, FP, GB, GR, IT, LI, LU, FT, IE, SI, LT, LV, FI, RO, CY, TR AT 329051 T 20060615 AT 2001-201027 EP 2001-201027 JP 2000-80998 20061025 20010926 20010925 ¥ 2 4 PRIORITY APPLN. INFO.: JP 2001258590 JP 3837006 EP 1136563

OTHER SOURCE(S): MARPAT 113:254110

ED Entered STN: 26 Sep 2001

AB A rapid and efficient method is provided for staining and detecting bacteria even in the presence of impurities in a sample (e.g., urine , blood) without culturing it. In this method, a cationic surfactant is added to the sample containing bacteria to

promote its dye-permeability. Then, the bacteria is stained with a dye (e.g., fluorescent dye), and detected by flow cytometry.
150/49-57-6 157199-63-8 165196-17-4
161/37-94-7 361544-71-0 361544-72-1
RL: BUU (Biological use, unclassified); BIOL (Biological study);
0SSS (idea)
(method for staining and detecting bacteria)
150/49-57-8 HCAPLUS
Bencothataoilum, 3-13-(trimethylamonio)propyl)-2-[5-[3-[3-(trimethylamonio)propyl)] (trimethylamonio)propyl)-2-[5-[3-[3-(trimethylamonio)propyl)] (The bencation) and the bencation of the benc H

3 5

Me3 + N- (CH2) 3 -CH-CH-CH-CH-CH-CH (CH2) 3-N+Me3

Br.

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157199-63-8 HCAPLUS Quinolinium, 4-[3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl}-1-[3-(trimethylammonio)propyl]-, dilodide (9CI) (CA INDEX NAME) 2 Z

166196-17-4 HCAPLUS Quinolinium, 1.1'-[1,3-propanediylbio[(dimethyliminio)-3,1-propanediyl]bio[4-[3,13-methyl-2(3H)-benzochiazolylidene)-1-propenyl, etraiodide (9CI) (CA INDEX NAME) **3** 3

PAGE 1-A

161437-94-7 HCAPLUS

BenzensensIconic acid, 4-[4-[5-[1,3-dibutyltetrahydro-4,6-dioxo-2-hioxo-5(2H)-pyrimidinylidene)-1,3-pentadienyll-4,5-dihydro-3-methyl-5-oxo-1H-pyracol-1-yll-, compd. with N.N-diethylethanamine [1:2]

(GA INDEX NAME) Z 25

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CRN 361437-93-6 CMF C27 H32 N4 O6 S2

PAGE 2-A

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CRN 121-44-8 CMF C6 H15 N

Et Et

161544-71-0 HCAPLUS
Borate(1-), diffluoro[2,3,5,6-tetrafluoro-4-sulfophenyl
6-[[[4-[2-[5-[[5-(2-thienyl)-2H-pyrrol-2-ylidene-kN]methyl]-1H-pyrrol-2-yl-kN]ethenyl]phenoxylacetyllamino]hexanoato[2-)]-,
sodium, (T-4)- (9CI) (CA INDEX NAME) **3** 3

PAGE 1-A

PAGE 1-B

28

361544-72-1 HCAPLUS
Borate(1-), difluoro[2,3,5,6-tetrafluoro-4-sulfophenyl
6-[[(4-[2-2-[(12,2-bi-1H-pyrrol]-5-yl-kN])methylene]-2Hpyrrol-5-yl-kN]ethenyl]phenoxylacetyl]amino|hexanoato(2-)]-,
sodium, (T-4)- (9CI) (CA INDEX NAME)

PAGE 1-A

Na +

PAGE 1-B

L45 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STR
ACCESSION NUMBER: 2000:367108 HCAPLUS FUll-text
DOCCOMENT NUMBER: 133:14302
TITLE: Brythroblast diagnostic flow-cytometry method and reagents and reagents Turi, Tomohiro, Sakata, Takashi, Ikeuchi, Voshiro; Oguni, Shin'ichiro Symmex Corporation, Japan SOURCE: Br. Pat. Appl. 39 pp.

Patent English 1 DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

199812 DATE APPLICATION NO. EP 1998-310004 20000531 DATE KIND Ş EP 1004880 . PATENT NO.

199811 199812 09 199811 27 JP 1998-336916 JP 1998-336916 US 1998-207995 PT, IE, SI, LT, LV, FI, RO JP 2000162209 A 20000616 20070228 B1 PRIORITY APPLN. INFO.: JP 3886271 US 6664110

OTHER SOURCE(S):

Batered 5TN: 02 Jun 2002

Be Batered 5TN: 02 Jun 2004

In peripheral blood or circulatory system-related samples accurately with high precision is disclosed. The reagents include a hemolytic agent for disclosing precision is a disclosed. The reagents including at least one fluorescent or stations, and including at least one fluorescent dye selected to stain leukocytes and erythroblasts difference in fluorescent dye is mixed with the sample, a detectable difference in fluorescence in the new fluorescence in the body fluid sample by their maturation stages under laser illumination the body fluid sample by their maturation stages.

IT 18159-88-1, Nk-182

RL: BUU (Biological study);

USSS (Uses) OTHER SOURCE(S): ED Entered STN: AB Reagents and

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(erythroblast diagnostic flow-cytometry method and reagents) 3 3

18359-88-1 HCAPLUS Naphtho[1,2-d]thiazollum, 1-ethyl-2-[3-(1-ethylnaphtho[1,2-d]thiazol-2(IH)-ylidene)-1-propenyl]-, iodide (9CI) (CA INDEX NAME)

LAS ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
DOCCHESTON NUMBER: 1997:9999 HCAPLUS Full-text
DOCCHENT NUMBER: 126:97074
TITLE: Optical recording material containing indolenine pentametrial characterial containing indolenine inventor(S): Shinkai, Masabiro; Namba, Noryoshi, Arloka, Hidetakai, Matemmoro, Kazumasa; Shinmaya, Hidetakai, Matemmoro, Kazumasa; Shinmada, Pamio Patent ASSIGNEE(S): Tdk Electronics Co Ltd, Japan; Konishiroku Photo Ind

Jpn. Kokai Tokkyo Koho, 22 pp. CODEN: JKXXAF

SOURCE:

DOCUMENT TYPE:

Japanese PAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE KIND PATENT NO.

.

DATE

199505 199505 JP 1995-142509 JP 1995-142509 19961126 Entered STN: 03 Feb 1997 PRIORITY APPLN. INFO. JP 08310129 8 8

material contains indolenine pentamethinecyanine dye (A) and metal complex I (R1 = alkyl, halo, m = 0-1; R2 = alkyl; n = 0-4; R3 = 0H, F, alkyl, alkoxy, acylamino, alkylaufonamide, arylsulfonamide, amino; p = 0-15; R4-5 = alkyl; M = N1, Cu, Co, Zn, Fe, Pd, Pt, or its sall at weight ratio Al. = (1-9)/(9-1). The dye may be AlL:A2.Xm (Al. 2 = indolenine derivative heterocycle; L = pentamethine chain; X = counter ion). The material shows good coatability, high optical modulation, reflection, and 2

lightfastness. 131443-20-4 162023-06-5 185629-79-2 185629-81-6 185629-83-8 H

RL: DEV (Device component use); USES (Uses)
(Optical recording material containing indolenine pentamethinecyanine dye and metal complex)
131443-20-4 HCAPLUS
2-Yildene)-1,3-pentadienyl)-3,3-dimethyl-, perchlorate (9CI) (CA INDEX NAME) 23

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CRN 131443-19-1

~ ₹ CRN 14797-73-0 CMF C1 04

162023-06-5 HCAPLUS
H-Benzelglindolium, 3-buryl-2-[5-(1,3-dlhydro-1,3,3,5-tetramethyl-2H-indol-2-yiddene)-1,3-pentadienyl]-1,1-dimethyl-, perchlorate (9CI)
(CA INDEX NAME) 2 2

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CRN 162023-05-4 CMF C35 H41 N2

CM ED

CRN 14797-73-0 'CMF C1 O4

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185629-79-2 HCAPLUS
1H-Semzlelindollum, 2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2ylidene)-1,3-pentadienyll-3-ethyl-1,1-dimethyl-, perchlorate (9CI)
(CA INDEX NAME) **2** 5

CRN 153313-18-9 CMF C32 H35 N2

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CRN 14797-73-0 CMF C1 O4

RN 185629-81-6 HCAPLUS
CN 3H-Benz [g] indolium, 2-[5-(5-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-1,3,3-trimethyl-, perchlorate [9Cl] (CA INDEX NAME)

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CMF C31 H32 C1 N2

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CRN 14797-73-0 CMF CI 04

185629-83-8 HCAPLUS

3H-Indolium, 2-(5-(1-buryl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-5-chloro-3,3-dimethyl-1-propyl-, terrafiuroroborate(1-) (9CI) (CA INDEX NAME) 2 2

CM 1

CMF C32 H40 C1 N2

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CRN 14874-70-5 CMF B F4 CCI CCS

	DATE	199510		199510 16	199510 19 199510 19	199510 19	199510 19	199510 20 199410 20	199510
i on STN Full-text analyzing solid Co., Ltd., Japan	APPLICATION NO.	EP 1995-610053	JP 1995-267454	1995-2160962	1995-34366	2000-123791	1995-610053	1995-545939 . 1994-255580 A	EP 1995-610053 A3
HT 2007 ACS HCAPLUS method for in urine a Electronic PPl., 30 PF	DATE APP	19960424 EP	19960918 20010523 IT, LI, NL	20041027 19960421 CA	19960502 AU	B	20070228 IT, LI, NL 20010801 ES	19990406 US	<u>ល</u> ស
8 HCAPLUS 1996 125; 125; Comp 1; Too 1; Too CODE Pate Pate Engl	MIN	A2	A3 B1 DE, ES, FR, GB,	B2 A1	æ	B2 A1	B1 B	A INFO.:	
LAS ANSWER 6 OF 8 HCA ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PAMILY ACC. NUM. COUNT:	PATENT NO.	EP 708334	EP 708334 EP 708334 R: CH, JP 08170960	JP 3580615 CA 2160962	AU 9534366			US 5891733 PRIORITY APPLN.	

maintaining osmotic pressure at 100 mosm/kg to 600 mosm/kg, (iii) a first dye which is a condensed benzene derivative, (i.v.) a second fluorescent dye capable of staining a damaged cell, and (v) a chelating agent. A diluent solution and a dyeing solution were prepared from pH 7.0 50 mW HEPES, sodium propionate (in an amount to adjust osmotic pressure at 150 mosm/kg), and EDTA tri-K salt 0.44 and a dyeing solution consisting of 400 ppm let dye, and 1600 ppm second fluorescent dye.

Si4.73.8, NK-136

ME: ARG (Analytical resgent use); ANST (Analytical study); USES

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(Oses)

(NX 136; reagent composition containing dyes for analyzing solid components in urine) S14-73-8 HCAPLUS S14-73-BEACCHISACOLHMA.3-echyl-2-[5-(3-ethyl-2(3H)-benzothiazolhiazollum, 3-echyl-2-[5-(3-ethyl-2(3H)-benzothiazolylidene)-1,3-pentadienyl]-, iodide (9CI) (CA INDEX NAME) **3** 3

2642-25-3, NK-321 RL: ARG (Analytical reagent use); ANST (Analytical study); USES H

(NX 321; reagent composition containing dyes for analyzing solid components in urine)
2642-25-3 HCAPLUS
Quinolinium, 1-ethyl-4-[3-(3-ethyl-2(3H)-benzothiazolylidene)-1-propenyll-, iodide (9CI) (CA INDEX NAME) 2 Z

(NK 529; reagent composition containing dyes for analyzing solid components in urine)
36394-22-8 HCAPLUS
3H.Indolium, 2.5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)1,3-pentadienyl]-1,3,3-trimethyl-, iodide (9CI) (CA INDEX NAME) 36536-22-8, NK-529 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) H

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OTHER SOURCE(S):

ED Enterted STM: 26 Jun 1995

AB A reagent for analyzing solid components in urine comprising: (i) a buffer agent for maintaining pH at 5.0 to 9.0, (ii) an osmotic pressure compensating agent for

Silver halide photographic material with undercoated layer constaining silver salt of filter dye to improve wash off appead one, Koji; Usagawa, Yasushi; Kawashima, US COPYRIGHT 2007 ACS on STN 1993:591868 HCAPLUS Pull-text 119:191868 L45 ANSWER 7 OF 8 HCAPLUS
ACCESSION NUMBER: 1991
DOCUMENT NUMBER: 119:
TITLE: Silv INVENTOR(S):

Yasuhlko, Hirabayashi, Shigeto Konishiroku Photo Ind, Japan Jpn. Kokai Tokkyo Koho, 21 pp. CODEN: JKXXAF PATENT ASSIGNEE(S): SOURCE:

APPLICATION NO. JP 1991-290258 -----19930525 DATE Japanese KIND FAMILY ACC. NUM. COUNT: PATENT INFORMATION: JP 05127312 PATENT NO. DOCUMENT TYPE:

199111 07 199111 DATE JP 1991-290258 PRIORITY APPLN. INFO.:

Entered STN: 30 Oct 1993 8 2

The photog. material having 21 light-sensitive Ag halide emulsion layer(s) on both sides of the support contains a Ag salt of a dye in 21 hydrophilic colloid layer(s) which is provided between the support and the emulsion layer. The material leaves little residual dye even when processed by a rapid process requiring 560 s to complete the processing, and has an improved sharpness due to decrease in cross over effect. H

(photog. dye, x-ray film colloid layer containing)
146407-84.3 HCAPLUS
4,6(1H.5H)-Pyrimidinedione, 5-(3-(2-chloro-4-(dimethylamino)phenyl]2-propenylidenejdihydro-1,3-dimethyl-2-thioxo- (9CI) (CA INDEX NAME) **Z** &

145 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:136124 HCAPLUS FULL-EXE
DOCUMENT NUMBER: 118:136124

TITLE:	Silver h	halide photo	ogra	Silver halide photographic light-sensitive material	41
INVENTOR(S):	Kawash	ima, Yasubik	Aira	Kawashima, Yasuhiko, Kagawa, Nobuaki, Usacawa, Yasushi, Hirabayashi, Shioeto	
PATENT ASSIGNEE(S):	Konica	Konica Corp., Japan	c		
SOURCE:	Eur. P	Eur. Pat. Appl., 28 pp. CODEN: EPXXDW	g d	•	
DOCUMENT TYPE:	Patent				
LANGUAGE:	English	ų			
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:					
PATENT NO.	KIND	DATE	APP	APPLICATION NO.	DATE
	;	:	;		
EP 521711	¥.	19930107	ЕP	EP 1992-306085	
					199207
EP 521711	B1	19960619			:
R: DE, FR, GB, NL	Ę		•		
JP 05011408	ď	19930122	ď	JP 1991-189485	
					199107
					04
JP 2867372	B2	19990308			
PRIORITY APPLN. INFO.:			e,	JP 1991-189485 A	
					107657

Entered STN: 30 Mar 1993
The title material contains a Ag salt of a dye which is selected from the group of 6
markush structures each containing 1 group having the structure I [R1 = alkyl, alkenyl,
aryl, hetercyclyl, R2 = R1, H; X1, X2 = 0, S] and an aromatic group joined by a linking
group or 2 I groups joined by a linking group. The dyes can be in the antihalation or
filter layer. The dyes are nondiffusible and the photog, material exhibit improved
efflux-decoloring property during processing.
RL: USES (Uses) 8 8 Ħ

Z Z

(photog. films containing)
146407-84-3 HCAPLUS
4 6(1H.5H)-Pyrimidinedione, 5-[3-[2-chloro-4-(dimethylamino)phenyl]2-propenylidene]dihydro-1,3-dimethyl-2-thloxo- (9CI) (CA INDEX NAME)

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STRUCTURE FILE UPDATES: 21 MAR 2007 HIGHEST RN 927866-99-7 DICTIONARY FILE UPDATES: 21 MAR 2007 HIGHEST RN 927866-99-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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http://www.can.org/ONLINE/UG/regprops.html

	189148-50-3/RN	189148-49-0/CRN	189148-49-0/RN	L10 OR L11 OR L22
	PLU=ON	PLU=ON	PLU=ON	PLU-ON
	ABB=ON	ABB=ON	ABB=ON	ABB=ON
	FILE-REGISTRY ABB-ON	FILE=REGISTRY	1 SEA FILE-REGISTRY ABB-ON	SEA FILE-REGISTRY ABB=ON
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Entered STN: 21 May 1997
Quinolinium, 1-(2-hydroxyethyl)-4-(3-(3-methyl-2(3H)nemochinarolylidene)-1-propenyl)-, tetrafluoroborate(1-) (9CI)
INDEX NAME ANSWER 1 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN 189148-50-3 REGISTRY => d ide 123 1-2 5283

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CA, CAPLUS, USPATFULL

199109-63-2, 251319-74-1 C22 H21 N2 O S . B F4 CA STN Files: CA, CAPLUS,

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189148-49-0 C22 H21 N2 O S CRN

14874-70-5 B F4 CCS CC CMF

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7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Disciplinium, 1-(2-hydroxyethyl)-4-[3-(3-methyl-2(3H)-benrochiazolylidene)-1-propenyl]- (9CI) (CA INDEX NAME) 625084-13-1, 199109-62-1, 251319-73-0 C2H H2 NO S CA H2 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2007 ACS on STN 189148-49-0 REGISTRY Entered STN: 21 May 1997 Ses R # T R 7

CH2-CH2-OH

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1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Species Search

** file heaplus FILE 'HCAPLUS' ENTERED AT 14:37:22 ON 22 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 22 Mar 2007 VOL 146 ISS 13 FILE LAST UPDATED: 21 Mar 2007 (20070121/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

		44	DATE	
L 22		ion o igshu,		
189148-50-3/RN 189148-49-0/CRN 189148-49-0/RN L10 OR L11 OR L22 L23		US COPYRIGHT 2007 ACS on STN 2007-2216 HCAPLUS FULL-CEXT 146:118286 FAGTERORE object for detecting malfunction of particle analyzer Kavate. Yasunori Faminor Corporation, Japan Faming Zhuanli Shenqing Gongkai Shuomingshu, Symex Corporation, Japan Faming Zhuanli Shenqing Gongkai Shuomingshu, CODEN COMEN COXXEV Patent Chinese	APPLICATION NO.	
PLU=ON PLU=ON PLU=ON PLU=ON		HT 2007 ACS on STN HCAPLUS PLIL-LESS bject for detectin alyzer Nunci Nunci nli Shenqing Gongk	APPLI	
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200607 10 200607 200507 12 200607 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, II, LI, LI, LV, WC, NL, PL, FT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU

JP 2007047154 A 20070222 JP 2006-189883 CN 2006-10098740 JP 2005-203279 EP 2006-447087 20061220 20070117 2 4 PRIORITY APPLN. INFO.: CN 1880942 EP 1744145

Entered STN: 02 Jan 2007
The title particle analyze treats the target particles in the biosample by fluorescent staining with a certain dye, and then analyzes the stained target particles. The title reference object comprises a first standard particle treated by fluorescent staining, and a second standard particle containing fluorescent dye that can exhibit a certain fluorescence intendity. This invention also provides the method and device that uses the reference object to detect the abnormal parts of the particle analyzer.

RI: ARG (Analytical resgent use); ANST (Analytical study); USES E 8 8

(reference object for detecting malfunction of particle analyzer) 189148-50-3 HCAPUG Outhollulum, 1-(2-hydroxyethyl)-4-[3-(3-methyl-2(3H)-benschiazolylidene)-1-propenyl)-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME) **3** 3

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CRN 189148-49-0 CMF C22 H21 N2 O S

CRN 14874-70-5 CMF B F4 CCI CCS

~ £ OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
2003:907438 HCAPLUS Full_text
ER: 139:393148
ER: Method for automatically analyzing nucleated bone marrow cell
Tsuji, Tomohisa; Itose, Hiroshi; Konishi, Aya Sysmex Co, Ltd., Japan
Jpn. Kokai Tokkyo Koho, 20 pp. INVENTOR(S): PATENT ASSIGNEE(S): L46 ANSWER 2 OF 6 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Japanese FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE: SOURCE:

200205 16 200305 200205 DATE APPLICATION NO. JP 2002-141958 JP 2002-141958 US 2003-436865 20031119 20031127 DATE KIND F PRIORITY APPLN. INFO.: JP 2003329668 US - 2003219850 PATENT NO.

OTHER SOURCE(S):

ED Entered STN: 20 Nov 2003

AB A bone marrow cell sample is divided into two samples. One of the samples is mixed with first hemolytic reagent to hemolyze erythrocytes and is stained with the fluorescent dye in the first dye solution, and the other sample is mixed with second

hemolytic reagent to damage the cells except myeloblasts and is dyed with the fluorescent dye in the second dye polution. The stained samples are introduced into a fluorescent dye in the scattering light and fluorescence are measured. The difference between the intensities of scattering light and fluorescence from the first sample is seatering light and count leukoblasts, erythroblasts and fat bodies, and the scattering light and fluorescence from the second sample are used to classify and count matured myeloblasts, and the cell number of myeloblasts. Purther the ratio of M/E is calculated from the nos. of the matured myeloid leukocytes and the myeloblasts and myeloblasts and myeloblasts and myeloblasts and myeloblasts.

Respublication of M/E is calculated from the nos. of the method was offered to obtain M/E ratio simply with high precision.

RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(method for automatically analyzing nucleared bone marrow cells)
183148-50-3 HCARUS
Outholinium, 1-(2-hydroxyethyl)-4-[3-(1-methyl-2(3H)Bonzochiazolylidene)-1-propenyl]-, tetrafluoroborate(1-) (9CI) (CA
INDEX NAME)

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CRN 189148-49-0

CRF C22 H21 R2 O S

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CRN 14874-70-5 CMF B F4 CCI CCS

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L46 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 132:10511 132:10511
TITLE: Compound as dyeing agent for determining reticulocyte

JOLOGIAN NOBER: DESCRIPTION OF THE STATE OF

pp. CODEN: CNXXEV

DOCUMENT TYPE: Patent

3 6	LANGUAGE:	. ž	2	COTINE.	Chinese
i a	ATENT	INFO	MATIC		1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1154966	æ	19970723	CN 1996-122614	
				199610
CN 1083839	æ	20020501		,
JP 09104683	Ø	19970422	JP 1995-260346	
				199510
JP 3425830	32	20030714		
TW 438795	Д	20010607	TW 1996-85111590	
				199609
				21
US 5821127	4	19981013	US 1996-726637	
				199610
				07
PRIORITY APPLN. INFO.:			JP 1995-260346	4
				199510
				90

OTHER SOURCE(S): MARRAT 132:10511 ED Entered STN: 17 Dec 1999 GI

AB The compound is I (structure on page 2), where R1 is H, or low alkyl; R2, R3 are H, low alkyl- or low alkoxy-; R4 is H, acyl-, or low alkyl-; S is H, or substituted low alkyl-; Z is S, O, or low alkyl- substituted C; n is 1 or 2; and X- is anion. The reagents containing the above compound is used as dyeing agent for determining reticulocyte. The synthesis procedures and the reagents are described in examples.

RL: SPN (Synthetic preparation), PREP (Preparation) (Compound as dyeing agent for determining reticulocyte) RN 189148-50-3 HCAPLOS (CN Quinolinium, 1-(2-hydroxyethyl)-4-[3-(3-methyl-2(3H)-

CN Quinolinium, 1-(2-hydroxyethyl)-4-[1-(3-methyl-2(1H)-benzothiazotylidene)-1-propenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM U CRN 189148-49-0 CMF C22 H21 N2 O S

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CRN 14874-70-5 CMF B F4 CCI CCS

129:18186
Method for classifying and counting immature leukocytes using cell hemolysis, staining and ACCESSION NUMBER: 1998-365015 HCAPLUS ENLISTEEN POCUMERT NUMBER: 129-39386 FOLDS FULL-EXE Method for classifying and country

flow cycometry Sakata, Takashi; Mizukami, Toshihiro; Hatanaka, INVENTOR(S):

Kayo Tra Medical Electronics Co., Ltd., Japan Eur. Pat. Appl., 14 pp. CODEN: EPXXDW PATENT ASSIGNEE(S):

Patent English DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

199711 DATE APPLICATION NO. EP 1997-120368 19980527 KIND A1 EP 844481 PATENT NO.

CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, SI, LT, LV, FI, RO
A 19980807 JP 1997-289419 R: AT, BE, C PT, IE, 9 JP 10206423

199711 19 199611 20 JP 1996-309492 PRIORITY APPLN. INFO.:

199710 JP 1997-289619

OTHER SOURCE(S): ED Entered STN: AB A flow cytome

DEFINITION OF THE PROPERTY OF

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RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study);

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INDEX NAME)

CRN 189148-49-0 CMF C22 H21 N2 O S

CRN 14874-70-5 CMF B F4 CCI CCS

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REFERENCE COUNT:	7 THI	SRE	ARE	0	ITED	REFERENCES	THERE ARE 7 CITED REFERENCES AVAILABLE FOR	
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ы ў. ;;	Sysmex	•			DATE			199704				199704			199704 08	109204	60	199704	14	199604 12
US COPYRIGHT 2007 ACS on STN 1997-744047 HCAPLUS FULL-EEXE 128:11616 A reagent for measuring reticulocytes and a method of measuring the measuring the method of measuring the MAXA, Yasumasa, Hatanaka, Kayo, Itose, Yuli;	Sakata, Takashi Toa Medical Electronics Co., Ltd., Japan; Sysmex Cornoration																		4	:
STN text :ticulocy: Kayo; Ite	, Ltd.,				ION NO.		010019				88481			17775		CA 1997-2202207		843260	91155	
	tes co.	d18 pp.			APPLICATION NO.		EP 1997-610010				JP 1997-88481			AU 1997-17775		A 1997-		US 1997-843260	25116-3691 df	
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US COPYRIGHT 2007 ACS on 1997;744047 HCAPLUS FULL 128:11616 A reagent for measuring remethod of measuring them method of measuring them 7Asai, Yasumasa; Hatanaka,	Sakata, Takashi Toa Medical Ele Corporation	Eur. Pat. Appl., CODEN: EPXXDW	£		DATE		19971112		19980408	20050622	19980127		20040113	19971016		19971012		19990406		
LUS COPYRIGH 1997:744047 128:11616 A reagent for method of me Akai, Yasuma	Sakata, Taka Toa Medical Corporation	Eur. P	Patent English	4	KIND	:	2		Ą	1 E			B2	4		A1		æ		
6 HCAPLUS 199 . 128 A r met	ä			N:		:				00									CAN	
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L46 ANSWER 5 OF ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S):	PATENT ASSIGNEE(S):	SOURCE:	DOCUMENT TYPE: LANGUAGE:	PATENT INFORMATION:	PATEN	1 1 1	EP 806664			5P 80	JP 10		JP 34	AU 97		CA 22		us sa	· CHNT NIGGE VITAGING	

OTHER SOURCE(S): MARPAT 128:11616

BD Entered STN: 26 Nov 1997

AB A reagent for measuring reticulocytes comprising 21 dye which specifically stains reticulocytes and 21 dye which specifically stains leukocytes.

IT 189148-50-3

RE: ARG (Analytical reagent use); ANST (Analytical study); USES

(Uses)

189148-50-3 HCAPLUS
Quinollinium, 1-(2-hydroxyethyl)-4-[3-(3-methyl-2(3H)benschikaxolylidene)-1-propenyl]-, tetrafluoroborate(1-) (9CI) (CA
INDEX NAME) reagent for measuring reticulocytes and a method of measuring them) 28

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CRN 189148-49-0 CMF C22 H21 N2 O S

CRN 14874-70-5 CMF B F4 CCI CCS CA CA

		e for		Kiminori; Sakata,		TOA Medical Electronics Co., Ltd., Japan; Sysmex							DATE			199610					199510	90			199609		199610
ACS on STN S Full-rest		Fluorescent compounds and their use for	ytes	azaki, Kiminori		nics Co., Ltd.,		.dd					APPLICATION NO.		EP 1996-610036					JP 1995-260346				TW 1996-85111590		US 1996-726637	
HCAPLUS COPYRIGHT 2007 ACS on STN 1997:124118 HCAPLUS Full-te		escent compound	measuring reticulocytes	Akai, Yasumasa; Miyazaki,	þi	edical Electro	Corporation	Eur. Pat. Appl., 27 pp.		ah de			DATE		19970409		19980225	20030521		19970422				20010607		19981013	
APLUS C	126:2	Fluor	measn	Akai,	Takashi	TOA M	Corpo	Eur.	Dated	English			KIND	:	Ş		3	Bl	GB, IT	4			B 2	æ		4	
L46 ANSWER 6 OF 6 HC	DOCUMENT NUMBER:	TITLE:		INVENTOR(S):		PATENT ASSIGNEE(S):		SOURCE:	DOCTMENT TYPE.	LANGUAGE:	FAMILY ACC. NUM. COUNT:	PATENT INFORMATION:	PATENT NO.		EP 767382		EP 767382	EP 767382	R: DE, FR, G	JP 09104683			JP 3425830	TW 438795		US 5821127	

PRIORITY APPLIN. INFO.:

0 JP 1995-260346

199510 06

OTHER SOURCE(S): MARPAT 126:290389 ED Entered STN: 21 May 1997 G1

This invention relates to novel fluorescent compds. and their use, especially to novel fluorescent compds. capable of being used as fluorescent dyes for detecting reticulocytes and messuring a reticulocyte maturation index in a clin. test, and also to reagents containing the compds. and a method for messuring reticulocytes by using the reagent. Such a compound is represented by I, where Hi is H or a lower alkyl group, R2 and R3 are independently H, a lower alkyl group, or a lower alkyl stoup, or a lower alkyl group, or a lower alkyl group, is S, O, or C substituted with a lower alkyl group, in is low 2; and X-is an anion. Examples are given of the use of the fluorescent dyes of the invention in studies of blood samples of a normal person, a patient under treatment for iron deficiency anemia and a patient suffering from anemia having elliptocytes, after treatment with an anticoagulant. 2

RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

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(fluorescent dyes preparation for measuring reticulocytes) 189148-50-3 HCAPUGS
Oulnolinlum, 1-(2-hydroxyethyl)-4-[3-(3-methyl-2(3H)-butachidaclyliddne)-1-propenyl]-, tetrafluoroboxate(1-) (9CI) INDEX NAME)

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189148-49-0 C22 H21 N2 O S CRN CMF

14874-70-5 B F4 CCS

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (fluorescent dyes preparation for measuring reticulocytes) 189148-49-0 (GAPLUS Quinolinium, 1-C-hydroxyethyll-4-{3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyll- (9CI) (CA INDEX NAME) 189148-49-0P H

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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http://www.cag.org/ONLINE/UG/regprops.html

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VAR G1=H/23/30

VAR G2=77/0/22

VAR G3=H/30

VAR G4=H/40/42/30

CONNECT IS E2 RC AT 21

CONNECT IS E2 RC AT 29

CONNECT IS E2 RC AT 29

CONNECT IS E3 RC AT 29

CONNECT IS E1 RC AT 30

CONNECT IS E1 RC AT 31

CONNECT IS E1 RC AT 41

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GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 49

STEREO ATTRIBUTES: NONE L7

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Page 1-A

CONNECT IS E1 RC AT 81
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED Page 2-A
VAR G1=16/26
VAR G1=16/20/39/30
REP G3=(0-1) 7-2 8-4
VAR G4=5/0/74
VAR G4=5/0/74
VAR G6=H/77/78
CONNECT IS E2 RC AT
CONNECT IS E3 RC AT CONNECT CONNECT CONNECT CONNECT

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 69 GRAPH ATTRIBUTES:

STEREO ATTRIBUTES: NONE

5602 SEA FILE=REGISTRY SSS FUL L7
12 SEA FILE=REGISTRY SUB=L8 SSS FUL L6

ANSWERS 77 58 ITERATIONS PROCESSED TIME: 00.00.01 100.04 SEARCH

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FILE COVERS 1907 - 22 Mar 2007 VOL 146 ISS 13 FILE LAST UPDATED: 21 Mar 2007 (20070321/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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as d que nos 142 L6 ST L7 S602 ST L41 12 SE L41 9 SE

STR S602 SEA FILE-REGISTRY SSS FUL L7
12 SEA FILE-REGISTRY SUB-L8 SSS FUL L6
9 SEA FILE-HCAPLUS ABB-ON PLU-ON L41

=> 8 142 not (145 or 146) L47 2 L42 NOT (L45 OR L46)

Structure ten in the Claims

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2006:233900 HCAPLUS Full-text L47 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2006:2339900 HCAPLUS FULL-ted DOCUMENT NUMBER: 144:288928

TITLE:

141.28828 Microorganiam sterilization treatment effect-measuring method using two kinds of cell growth activity information Ods, Yasumass, Sakata, Takashi Symmex Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 12 pp.

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Patent Japanese 1 FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE:

DATE	200409	06 200409 06
APPLICATION NO.	JP 2004-258723	JP 2004-258723
DATE	20060316	
CNIX	4	
PATENT NO.	JP 2006067974	PRIORITY APPLA, INFO.:

effect on microorganism (e.g., bacillus). The method comprises elec. or optically measuring two kinds of growth activity information on the microorganism contained in a sample which has been treated for sterilization and cultured for a specified time, and calculating the microorganism number in a specified region (e.g., spore region, germination region, nutrition-type region) divided in a two-dimensional distribution diagram formed based on the two kinds of growth activity information.

189148-51-4

RL: BUU (Biological use, unclassified); BIOb (Biological study); tered STN: 16 Mar 2006 measuring the sterilization treatment method is provided for rapidly and accurately measuring the sterilization treatment 8 2

USES (Uses)

H .

(microorganism sterilization treatment effect-measuring method using two kinds of cell growth activity information) 199148-51-4 HCAPLUS Quinolinium, 1-(2,3-dihydroxypropyl)-4-(3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-, bromide (9CI) (CA INDEX NAME) Z Z

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Polymethine dyes Kendall, John D.; Edwards, Harry D. Ilford Ltd. L47 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1947:25285 HCAPLUS 1947:25285 HCAPLUS 41:25285 41:50411,5042a-i,5043a Unavailable ORIGINAL REFERENCE NO.: COUNT: PATENT ASSIGNEE(S): DOCUMENT TYPE: PAMILY ACC. NUM. CO DOCUMENT NUMBER INVENTOR(S): LANGUAGE

PATENT NO.	KIND	KIND DATE	APPLICATION NO.	DATE
	:			
US 2412816		19461217	US 1943-514668	

de or 7-position to the Natom. Thus, 2-methyl-1-1-(2-hydroxyethyl)thia(4')quinodicarboc yanine iodide, bronze crystals from MeOH, m. 200° (decomposition), maximum sensitivity 7700 Å, is prepared by refluxing 1-(4-(ethylmercapto)butadienyl)benzothiazole methiodide [1) and lepiddine 2-hydroxyethiodide in EOH solution containing ELN. Similarly, 2.2-dimethylthiaxadicarbocyanine iodide, m. 263° (decomposition), maximum sensitivity 6900 Å, is prepared from 1 and 1-methylbenzoxazole methiodide; 2-methyl-1: sensitivity to 7700 Å with a maximum at 7150 Å, is prepared from 1 and quinaldine ethiodide, 2-methyl-1: 3.3-trimethylthiaindodicarbocyanine iodide, green crystals from MeOH, m. 256° (decomposition), sensitivity to 7400 Å with a maximum at 6850 Å, is prepared from I and 2,3,3-trimethylindolenine methiodide (II); 2-methyl-2:-(2-methylladicarbocyanine iodide, green crystals from MeOH, m. 221° (decomposition), sensitivity to 7400 Å with a maximum at 7650 Å, is prepared from I and 2,3,3-trimethylindolenine methiodide (II); 2-methyl-2:-(2-methylbenzothiazole 2-hydroxyethiodide (III); 2-methyl-2:maximum at 6875 Å, is prepared from IV and II; 2-methyl-1:-ethyl-5; 6:-benzothia maximum at 1690 per corporate from IV and II; 2-methyl-1:-ethyl-5; 6:-benzothia (4) quinodicarbocyanine; 0.1 per crystala from Mody, m. 180 (decomposition), is prepared from I and 5; 6-benzolepidine. 2-Ethyl-1-methyloxa(2) quinodicarbocyanine iodide, greenish gold crystala from Mody, m. 175 (decomposition), sensitivity to 7000 Å with a maximum at 6900 Å, is prepared from solution of 1-14 (ethylmercapto)butadienyl) benzoxazole ethyl-p-toluenceulifonate (V) and quinaldine methodide containing Ethyl methyl-2-thio-4-oxo-5-[4-(N-ethyldihydrobenzoxazolyyidens) buenyli densiting Ethyl sensitivity maximum 7000 Å, is prepared by refluxing III with Ac20, adding β -(ethy)mercapto)acrolein acetal, treating the resulting product with addnl. III and Et3N methyl-4-isopropylidenepyrazol-5-one, 5-(1-methyldihydrobenzothiazolylidene)crotonaldazine dihydriodide, brown crystals from MeOH, Entered STN: 22 Apr 2001 Polymethine dyes useful as optical sensitizers for Ag halide photographic emulsions are 227° (decomposition), sensitivity maximum at 6200-6850 Å, is prepared by fusing µmethylthiazoline with methyl p-toluenesulfonate (VII) and warming the resulting
quaternary salt with an alc. solution of 2-(4- (ethylmercapto)butadienyl]-1,3;3trimethylindolenium perchlorate. Similarly, 2,2-dimethyl-7-atchiadicarbocyanine
iodide, silver blue crystals from EtOH, m. 240° (decomposition), is prepared from 1aminobenotchiazole, VII. and I. (1-Methyldihydroquinolylidene-1) butenylidene-1,3'diketohydrindene, brown crystals from MeOH, m. 268° (decomposition) is prepared by
refluxing 2-(4- (ethylmercapto)butadienyl]quinoline methylperchlorate (VIII) with 1,3ethylthisselenodicarbocyanine iodide, green crystals, m. 216° (decomposition), sensitivity to 700 Å with a maximum at 7050 Å, is prepared from [4-(ethylmercapto)butadienyllbenzoselenazole ethhodide [IV) and 1-methylbenzothiazole methiodide; 2-ethyl-1: 3: 3: - trimethylselenoindodicarbocyanine parchlorate, dark blue crystals from MeOH, m. 197 or 204° (decomposition), sensitivity to 7000 Å with a trimethyloxaindodicarbocyanine (VI), m. 158° (decomposition), is prepared from β -erhylthiobutadienylbenzoxazole ethyl-p-roluensesifonate and II; VI is converted to the perhibrate, m. 140° (decomposition) (violet crystals from MeOH), sensitivity maximum 6400 Å, by treatment with KClO4. 3-Methyl-1.3.3.3. obtained by condensing a β -(alkylmercapto)acrolein dialkyl mercaptal or acetal (cf. preceding abstracts) with an alkyl, substituted alkyl, aralkyl, or substituted aralkyl quaternary salt of a heterocyclic N base containing a reactive methylene group in the Similarly, 7-[1-methyl-1,2-dihydroquinolylidene-2]-2-[1-phenyl-3-methyl-5-keto- 4,5-dihydropyrazolylidene-4]-3,5-heptadiene, blue crystals, m. 215°, sensitivity maximum 7600 Å, is prepared from VIII and 1-phenyl-3trimethylthiazolinoindodicarbocyanine perchlorate, green crystals from aqueous EtOH, [4(ethylmercapto) butadienyl] benzothi asole ethiodide. 2-(2-Acetoxyethyl)-2'-(2-hydroxyethyl)thiadicarbocyanine iodide, m. 210° (decomposition) (from MeOH), crystals from MeOH, m. 215°, sensitivity to 7000 Å with a maximum at 6500 Å, is prepared from V and N-methylrhodanic acid; 2-ethyl-1',3',3'-208° (decomposition), is prepared from H2NNH2.H2O and 1in EtOH, and pouring the alc. solution into aqueous KI. 86015-11-3P. Ouinclinium 1-fo-hardeness. refluxing 2-[4- (ethylmercapto)butadi indandione in EtOH containing NaOAc.

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Quinolinium, 1-(2-hydroxyethyl)-4-(5-(3-methyl-

2-benzothiazolinylidene)-1,3-pentadienyl]-, iodide

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Quinolinium, 1-(2-hydroxyethyl)-4-(5-(3-methyl-2-benzothiazolinylidene)-1,3-pentadienyl)-, iodide (5CI) (CA INDEX

RL: PREP (Preparation) 860715-11-3 HCAPLUS

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** file reg FILE 'REGISTRY' ENTERED AT 14:40:34 ON 22 MAR 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEARE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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21 MAR 2007 HIGHEST RN 927866-99-7 21 MAR 2007 HIGHEST RN 927866-99-7 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: New CAS Information Use Policies, enter HELP USAGETERMS for details.

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3127 SEA FILE-REGISTRY ABB=ON PLU=ON 1409.195/RID 2974 SEA FILE-REGISTRY ABB=ON PLU=ON L12 AND X/ELS => d que nos 113 L12 3127 SI L13 2974 SI

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WO 2007027796

ES, CA, ES, FI, KE, KG, LY, MA, OM, PG, SV, SY, ZM, ZW

11S, 11U, 12U, 12L,

BR, EC, IN, LLT, NI, VC, 11, 12, NG, 02, BB, DM, ID, ID, NA, US, BA, DK, LK, MZ, GC, AZ, LC, UA,

12 X E E C 2 A # KZ, GG, ¥ R R R R R R E

AE, AG, AL, CH, CN, CO, GB, GD, GE, KM, KN, KP, MD, MG, MK, TJ, TM, TN,

This file contains CAS Registry Numbers for easy and accurate substance identification.

OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d que nos 136 L7 S: L8 5602 SI

5602 SEA FILE-REGISTRY SSS FUL L7

GR, HU, SK, TR, SN, TD, UG, ZM, FI, FR, GB, RO, SE, SI, ML, MR, NE, SL, SZ, TZ, 58. 50. EE, 78.00 P.T. R K C K C 8 5 8 8 6 8 5 8 8 9 មិន្តិ មិន 23,28,8 55858 BE, ES, IS, INFO.

US 2005-712600P

PRIORITY APPLN.

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200508

The present invention includes compus, and methods for the detection of specific trayets on a surface that includes one or more peptides and one or more oligonucleotides connected by a joint to a detectable marker, wherein the joint between the peptides and oligonucleotides connected by a joint to a detectable marker, wherein the joint between timpoblished. Multivalent peptides of both the peptides and oligonucleotides are immoblished. Multivalent peptides oligonucleotides phycocrypthin conjugates (burrs!) were generated that can bind adjacent to one another on a call surface and be ligated together to form unique amplicons. Using the present invention and real-time PCR detection of burr ligation events, it was possible to identify specifically as few as 100 Batillus anthracks, il Batillus subtills, and I Batillus cereus spore.

9-2 (Biochemical Methods) Section cross-reference(s): 3, 10, 14 ပ္ပ

INDEXING IN PROGRESS ä

53-84:9, Nicotinamide-adenine dinucleotide 65-61-2, Acridine Orange 68-19-9, Vitamin BJ 2129-0-0, Pyrene 146-1-5, Plavin-adenine dinucleotide 541-59-3, Malcinide 605-65-2, Dansyl Chloride 989-18-8, Rhodamine 66 1219-45-8, Ethidium Bromide 2312-0-5, Fluorescein 7340-137-1, T-AAD 16322-19-3 16423-68-0, Erythrosin 17372-89-1, Eosin 21658-70-8, BODIFF 505/515

13491-45-4, Horchet 1328 25168-10-9, Naphthalenamine 2535-16-4, Propidium Todide 27072-45-3, Fluorescein 1328 25168-10-9, Naphthalenamine 2535-16-4, Propidium Todide 27072-45-3, Fluorescein 47165-04-8, DAFF 62669-70-9, Rhodamine 123 82354-19-6, Texas Red 8246-52-4, Lucifer yellow 83907-40-8, SPQ 107347-53-5, TRITC 115532-49-5, TRMP 123177-35-9, Kayasorb CY 9, 143431-84-7, TOTO-114413-88-8, YOYO-1 143491-54-7, FTC 15013-78-7, BODDPY 576/589 165599-63-3, BODDPY FL 189200-71-3, Rhodamine 10000-70

green 195136-58-4, Oregon Green 488 204934-16-7, BODIPY TR 245670-67-1, Cychrome 247144-99-6, Alexa 488 247145-11-5, Alexa 22 247145-23-9, Alexa 546 247145-38-6, Alexa 568 247145-66-4, Alexa 594 287384-28-5, 132811-67-0 886985-59-7, BODIPY 493/504

with peptide and oligonucleotide conjugate detectable marker 'burrs' and aptamers for sensitive detection of spores and cancer (as detectable marker in conjugate; proximity ligation assays RL: ARC (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study);

7664-41-7, Ammonia 14797-65-0, Nitrite RL: BUU (Biological use, unclassified); BIOL (Biological study);

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(bacteria oxidizing, as target, proximity ligation assays with peptide and oligonucleotide conjugate detectable marker 'burrs' and aptamers for sensitive detection of spores and cancer cells) 21658-70-8, BODIPY 505/515 150173-79, BODIPY 55599-63-3, BODIPY FL 287384-28-5 USES

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unclassified); ANST (Analytical study); BIOL (Biological study); RL: ARG (Analytical reagent use); BSU (Biological study,

(as detectable marker in conjugate; proximity ligation assays with peptide and oligonucleotide conjugate detectable marker 'burrs' and aptamers for sensitive detection of spores and cancer

Boron, [2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-KN)methyl]-3,5dimethyl-1H-pyrrolato-kN]difluoro-, (T-4)- (9CI) (CA INDEX Z Z

NAME)

Borate(1-), difluoro[5-[[5-(1H-pyrrol-2-yl)-2H-pyrrol-2-ylidene-KN]methyl]-1H-pyrrole-2-propanoato(2-)-KNl]-, hydrogen
(1:1), (T-4)- (CA INDEX NAME) 150173-78-7 HCAPLUS **3** 3

165599-63-3 HCAPLUS 3 3

Borate(1-), [5-[(3,5-dimethyl-2H-pyrrol-2-ylidene-KN)methyl]-1H-pyrrole-2-propanoato(2-)-kN1]difluoro-, hydrogen (1:1), (T-4)- (CA INDEX NAME)

2 2

287384-28-5 HCAPLUS Borate(1-), difluoro[5-[[5-(4-methoxyphenyl)-2H-pyrrol-2-ylidenekN]methyl]-2,4-dimethyl-1H-pyrrole-3-propanoato(2-)-kNl), hydrogen, (T-4)- (9CI) (CA INDEX NAME)

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14797-65.0, Nitrite RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES (Uses)

(bacteria oxidizing, as target; proximity ligation assays with peptide and oligonuclectide conjugate detectable marker 'burrs' and aptamers for sensitive detection of spores and cancer cells) 1497-65-0 HARAUS

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Human papilloma virus (HPV) detection using nucleic acid probes, microbeads, and fluorescence-activated cell sorter (FACS) Poetter, Karl, Gould, Toby Genera Blosystems Pty. Ltd., Australia L48 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2007 ACS on STIN ACCESSION NUMBER: 2006:577756 HCAPLUS <u>PU11_text</u> DOCUMENT NUMBER: 145:41223 PCT Int. Appl., 90 pp. CODEN: PIXXD2 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: . TITLE:

Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DOCUMENT TYPE: LANGUAGE

200512 BZ, CA, ES, FI, KG, KM, MD, MC, PL, PT, TR, TT, GR, HU, SK, TR, SN, TD, UG, ZM, DATE 4 1 H K K C K S1, NE, 72, A R C P E SE, SE, APPLICATION NO. AU 2004-907070 WO 2005-AU1865 BB, BG, LIL, IN, LIL, IN, LIL, IN, SY, SY, SY, ZA, ZW, SP, PT, GO, GW, TJ, TM 20060615 DATE ₩ G & ¥ 9 % KIND Ä A W. IS. WO 2006060872 ZW, TG, PRIORITY APPLN. PATENT NO. 3 3

Entered STN: 8 8

The invention relates generally to the field of diagnostic and detection assays. More particularly, the invention provides methods, and respects including subsets of beads for detecting the presence of, or distinguishing between, one or more human papillomavirus analytes in a human sample. Subsets of beads are homogeneous with respect to size, the beads within each subset are coupled to a nucleic acid capture probe which is specific for an HFV strain-specific region of the genome, and capture

probes on each bead are labeled with the same label within a bead subset. Subsets of beads have labels with different fluorescent intensities to create a heterogeneous mixture of beads based on fluorescent intensity. The subset identity and therefore the strain of HPV is identifiable by flow cytometry based on bead size, fluorescent intensity, and probe sequence differences.

1-1 (Blochemical Genetics)

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- Section cross-reference(s): 10, 14 Microspheres

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- (3, 3.5, 4.1, 5, 5.6, and 6.8 µm; human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads , and fluorescence-activated cell sorter (FACS) Plow cycometry (FACS (fluorescence-activated cell sorting); human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter
 - (FACS))

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(beads; human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated capture probes, micr cell sorter (FACS))

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Phycoerythrins
RL: ARC (Analytical reagent use); DCN (Diagnostic use); ANST
(Analytical study); BIOL (Biological study); USES (Uses)
(Analytical study); BIOL (Biological study); USES (Uses)
(conjugates with CyS or Cy7; human papilloma virus (HPV)
detection using nucleic acid capture probes, microbeads

, and fluorescence-activated cell sorter (FACS)) Fluorescent dyes

11

(cyanine; human papilioma virus (HPV) detection using nucleic acid capture probes, aicrobeads, and fluorescence-acitated cell sorter (PACS)

(fluorescent; human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (FACS)) Cyanine dyes

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DNA microarray technology Plow cytometry

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Pluorescent indicators

Genotyping (method)

Juman

Human papillomavirus Human papillomavirus

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US 2005-704974P

Human papillomavirus 6 Human papillomavirus 66

Human papillomavirus 68 PCR (polymerase chain reaction) (human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (FACS))

Viral DNA H

RL: ANT (Analyte): DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (Human papilloma virus (HPV) detection using nucleic acid capture probes, microbasda, and fluorescence-activated cell

sorter (FACS))

increase.

(viral; human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated capture probes, microbeads, and fluorescence-activated ccll sorter (RACS)

105-61-2, Acridine Orange 2121-07-5, Fluorescein 2768-89-0, Rodamine X 3520-42-1, Lissamine R 4312-69-1, Red 6B 7059-24-7, Chromomycin A3 7240-37-1 7-AAD 18378-89-7, Rithmanycin 249-11-6-4, Hocchet 3328 23491-52-3, Hocchet 33342 30310-55-0, Coumarin, amino- 4706-8-5-1, Hordonycomarin 47165-04-8, DAPI 7028-1-37-7, Tetramethylrhodamine 7413-9-9, LDS 751 8235-4-9-6, Rexa Red 82446-52-4, Lucifer yellow 1028-03-5-5, CY2 10702-89-4, Thiazolo carage 1074-53-5-7, TRITC 11211-5-7, 4 120718-39-0, ROX 120718-52-7, TAWAN 12903-6-2, HexachloroPiucescein 138039-5-1, Cacade blue 14413-84-7, TOTO-1 14111-85-8 VOYO-1 14658-14-1, Cy5 14638-16-3, Cy3 155911-14-1, TET 127199-5-2, To-PRO-1 157199-63-8, FRED 12777-84-3, Cy5-5 18976-7-5-0, Fluorx 1910-76-0, STOX Green 202531-90-4, Fluor 202531-0, Fluor SCO 247144-9-8, BoDilpy Roy 16518-14-4, Alexa Pluor 488 24715-11-5, Alexa Pluor 489 24715-11-6 Phycocrythrins KE. ARG (Analytical reagent use); DGN (Diagnostic use); ANST KE. ARG (Analytical study); UGSS (Uses) (Analytical study); BIOL (Biological study); UGSS (Uses) (human papilloma virus (HPV) detection using nucleic acid capture probes, microbeada, and fluorescence-activated cell sorter (FACS) RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (impoblikach; human papilloma virus (HPV) detection using nucleic acid capture probes, macrobeade, and fluorescence-activated cell sorter (FACS)) (immobilized, human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (FACS)) Oligonncleotides RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES Probes (nucleic acid)
RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (PACS)) RL: ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES RL: ARC (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (PACS)) a 430 247144-99-6, Alexa Fluor 488 247145-11-5, 247145-23-9, Alexa Fluor 546 247145-86-4, Alexa (mol., human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (PACS) (labeled, human papilloma virus (HPV) detection using nucleic acid capture probes, microbeads, and fluorescence-activated cell sorter (FACS)) 260397-67-9, 6-Carboxy-4', 5'-dichloro-2' Oligonucleotides Alexa Fluor 532 Fluor 594 260 Diagnosis ž

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137199-63-8 HCARUS
Quinolinium, 4-[3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-1-
[3-(trimethylamonio)propyl]-, dilodide (9CI) (CA INDEX NAME)
                              SYTOX Blue (19001-12-2, Alexa Fluor 647 422509-67-9, Alexa Fluor 680 42251-31-2. PercP 680 42251-31-2. PercP 477780-06-6, Alexa Fluor 691 644990-77-2, Alexa Fluor 555 697795-05-4, Alexa Fluor 700 697795-06-5, Alexa Fluor 556 697795-06-5, Alexa Fluor 556 697795-06-5, Alexa Fluor 750 804016-07-6, Alexa Fluor 556 80416-18-9, Oregon Green 488X succinimidy elements and alexa Fluor 556 80416-18-9, Oregon Green 488X RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical suddy); BIOL (Habodgatal reddy); USSE (Usee) (human papilloma virus (HPV) detection using mucleic acid capture probes, microbeads, and fluorescence-activated cell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (unclaimed nucleotide sequence; human papilloma virus (HPV)
detection using nucleic acid probes, microbeads, and
fluorescence-activated cell sorter (FACS)
155199-63-8, To-PRO-1 165599-63-3, BODIPW-FL
166196-17-4, TOTO-1 20340-49-8, BODIPW-FL
166196-17-4, TOTO-1 20340-49-8

RL: ARC (Analytical readent use); DGN (Diagnostic use); ANST
(Analytical study); DSSE (Uses)
[human papilloma virus (HPV) detection using nucleic acid capture
probes, microbeads, and fluorescence-activated cell
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RL: ARG (Amalytical reagent use); DGN (Diagnostic use); PRP
(Properties); ANST (Amalytical study); BIOL (Biological study); USBS
324767-53-5, SYTOX Orange 396077-00-2, Alexa Fluor 647 422309-67-9, Alexa Fluor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses) (human papillomavirus universal PCR primer GPS+; human papillomavirus universal PCR primer GPS+; human papillomavirus universal pcr primer GPS+; human papillomavirus and fluorescence-attivated capture probes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          890161-95-2D, CyS labeled REL: ARC (Analytical use, REL: ARC (Analytical reagent use); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses) (Answar papillomavirus universal PCR primer GP6+; human papillomavirus (HPV) detection using nucleic acid capture probes, microbesds, and fluorescence-activated cell sorter
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7'-dimethoxyfluorescein
SYTOX Blue 400051-23-2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RL: PRP (Properties)
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165599-63-1 HCAPLUS
Borate(1-), [5-(13.5-dimethyl-2H-pyrrol-2-ylidene-kN)methyl]1H-pyrrole-2-propanoato(2-)-kNl]difluoro-, hydrogen [1:1],
[T-4]- (GA INDEX NAME)

166196-17-4 HCAPLUS
Uniteditation, 1,1-(1,3-propanediylbis[(dimethyliminio)-3,1-propanediyllbis[d-13-(3-methyl-213H)-benzochlazolylidene)-1-propanelyll, tetraiodide (9CI) (CA INDEX NAME) ⊉ &

PAGE 1-A

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209340-49-8 HCAPLUS
Borate(1-), difluoro[6-[[[4-[2-[2-[[5-(2-thienyl)-1H-pyrrol-2-ylv3]methylene]-3H-pyrrol-5-yl-v3|ethenyl]phenoxylacetylla
minolhexanoato(2-)]-, hydrogen (1:1), (T-4)- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L48 ANSWER 3 OF 19 HCAPLUS COPPRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:965309 HCAPLUS FULL-text
143:246739
FATT-CTL (fluorescent-antigen-transfected target represent a fluorescent antigen-transfected target byteles and kist to detect antigen-specific cytolytic activity for immunity assessing and drug

INVENTOR(S):

screening Gruters, Robertus Antonius; Van Baalen, Carel Adrianus; Rimmelzwaan, Guustaaf Prank; Osterhaus, Albertus Dominicus Marcellinus Erasmus Universiteit Rotterdam, Neth. PCT Int. Appl., 67 pp. PATENT ASSIGNEE(S): SOURCE:

PAGE 2-A

8 5 5 5 5,8 F, 8, APPLICATION NO. WO 2005-NL119 EP 2004-7555 13. BB. SZ, BE, 1S, CF, SD, SL, TM, AT, 1 HU, IE, 1 BF, BJ, C 3555£ TR., 12. 4 X E B B B z i i i i 20050901 AZ, GB, SK, DATE Patent English 1 KIN Ą FAMILY ACC. NUM. COUNT: PATENT INFORMATION: WO 2005080991 PATENT NO. DOCUMENT TYPE: PRIORITY APPLN RW: 3

200502

DATE

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KG, KP, MN, MW, SC, SD, US, UZ,

a 2

AB Finetical STN: 02 Sep 2005

AB The invention relates to a novel non-radioactive method to detect cytolytic activity against target cells expressing an specific antigen of choice. Cytocoxic T lymphocyte (CTL) activity provides a measure of the existence and magnitude of a cell-mediated cytocoxic response against a particular antigen. Specifically, the invention provides FATT (fluorescent-antigen-transfected target)-CTL assay, a kit and a nucleic acid for use in a method according to the invention. Cytocoxicity is quantified by assessing the elimination of viable cells expressing an antigen of interest associated with a fluorescent reporter mol., such as green fluorescent protein (GFP) expression assessing by flow cytometry. Thus, provided is a method for detecting cytolytic activity of cells or a substance against a population of target cells, comprising the steps of providing target cells with a first nucleic acid sequence encoding a reporter mol. and sectivity is and detecting the viability of target cells provided viab the reporter mol. Bemonstarted is use of FATT-CTL assay with HIV-1. and influenza A virus-specific CTL and collogorated and sequence molemates. The CTL and influenza A virus-specific CTL and (CTL) (Immunochemistry).

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Section cross-reference(s): 1, 3

Flow cytometry

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(FACS (fluorescence-activated cell sorting); FATT-CTL [Iluorescent-anigen.transfected target. - cytocoxic T lymphocyte) assay, and kits to detect aniigen-specific cytolytic activity for immunity assessing and drug screening)

RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) Antigens H

(bacterial; PATT-CTL (fluorescent-antigen-transfected target -- cytotoxic T lymphocyte) assay, and kits to detect antigen-specific cytolytic activity for immunity assessing and drug screening)

(viability, FATT-CTL (fluorescent-antigen-transfected target --cytoboxic T lymphocyte) assay, and kits to detect antigen-specific cytolytic activity for immunity assessing and drug exeening) Dyce H

157199-63-8, TO-PRO-3 todide

H

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); USES (Uses)

(FATT-CTL (fluorescent-antigen-transfected target -- cytotoxic T lymphocyte) assay, and kits to detect antigen-specific cytolytic activity for immunity assessing and drug screening) 157199-63-8, TO-PRO-3 iodide

11

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(FATT-CTL (fluorescent-antigen-transfected target -- cytotoxic T lymphocyte) assay, and kits to detect antigen-specific cytolytic activity for immunity assessing and drug screening) 157199-63-8 HCAPUS (Outloalinum, 4-13-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-1-(3-(trimethylamonio)propyl)-, diiodide (9CI) (CA INDEX NAME)

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200402

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN

REFERENCE COUNT:

THE RE FORMAT HCAPLUS

Development of a new fluorescent probe: JUST COPYRIGHT 2007 ACS ON STN 2004:146392 HCAPLUS Full-text L48 ANSWER 4 OF 19 PACESSION NUMBER: DOCUMENT NUMBER: TITLE:

1,3,5,7-tetramethyl-8-(4'-aminophenyl)-4,4-difluoro-4-bora-3a,4a-diaza-8-indacence for the Li, Mengling; Wang, Hong; Zhang, Xian; Zhang, Hua-shan determination of trace nitrite

AUTHOR (S):

SOURCE:

Department of Chemistry, Wuhan University, Wuhan, 430072, Peop. Rep. China Spectrochimica Acta, Part A: Molecular and CORPORATE SOURCE:

Biomolecular Spectroscopy (2004), 60A(4),

CODEN: SAMCAS; ISSN: 1386-1425 Elsevier Science B.V. 987-993 Journal DOCUMENT TYPE: PUBLISHER

Entered STN: 23 Feb 2004

A new fluorescent probe, 1,3,5,7-tetramethyl-8-(4'-aminophenyl)-4,4- difluoro-4-bora-3a,4a-diaza-8-indacence (TMABODIPY) was developed for the determination of trace nitrite in terms of the reaction of nitrite with TMABODIPY lat in acidic solution and then in alkaline solution to form diazotate, a stable and highly fluorescent reagent. The method offered the advantage of specificity, sensitivity and pimplicity. The linear calibration range for nitrite was 8-300 nmol L-1 s with a 30 detection limit of 0.65 LANGUAGE: ED Entere AB A new

The proposed method was applied to monitor the trace nitrite in drinking H20

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and vegetable without extraction
79-6 (Inorganic Analytical Chemistry)
1479-7-65-0, Nitrite, analysis
RL: ANT (Analyte); ANST (Analytical study)
(development of the new fluorescent probe 1,3,5,7-tetra-Me-8-(4'-aminopheny))-4-difluoro-4-bora-3a,4a-diaza-s-indacence for the determination of trace nitrite)

321895-93-6P Ţ

RL: ARC (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical gutdy); PREP (Preparation); USES (Uses) (development of the new fluorescent probe 1,3.5,7-tetra-Ne-8-(4'-aninopheny))-4,4-difluoro-4-bora-3a,4a-diaza-s-indacence for the determination of trace nitrite)

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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); (Reactant or reagent)

(preparation and use in preparation of 1,3,5,7-tetra-Me-8-(4'-aminophenyl)-4,4-difluoro-4-bora-1a,4a-diaza-s-indacence)

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14797-65-0, Nitrite, analydda RL: ANT (Analyte); ANST (Analytical study) (devolopment of the new fluorescent probe 1,3,5,7-tetra-Me-8-(4'-aminophenyl)-4.4-difluoro-4-bora-Ja,4a-diaza-s-indacence for the determination of trace nitrite)

14797-65-0

Nitrite (8CI, 9CI) (CA INDEX NAME) **3** 3

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321895-93-6P H

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (development of the new fluorescent probe 1,3,5,7-tetra-Ne-8-(4'-aminophenyl) -4,4-difluoro-4-bora-3a,4a-diaza-s-indacence for the determination of trace nitrite)

Boron, [4-{(3,5-dimethyl-1H-pyrrol-2-yl-KN)(3,5-dimethyl-2Hpyrrol-2-ylidene-kN)methyl]benzenaminato]difluoro-, (T-4)-(9CI) (CA INDEX NAME) **3** 3

321895-92-5P

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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
(preparation or reagent)
(preparation and use in preparation of 1,3,5,7-tetra-Me-8-(4'-aminophenyl)-4,4-difluoro-4-bora-3a,4a-diaza-s-indacence)
321895-92-5 HCAPLUS

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Boron, [2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-kN)(4-nitrophenyl)methyl]-3,5-dimethyl-1H-pyrrolato-kN]difluoro-, (T-4)- (9CI) (CA INDEX NAME)

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 23 REPERENCE COUNT:

l40:135044
Spectrofluorometric determination of total amount of nitrite and nitrate in biological sample with a new fluorescent probe 11.3.5. 7-tetramethyl-8-(3'.4'-diaminophenyl)-difluoroboradiara-s-indacence HCAPLUS COPYRIGHT 2007 ACS on STN 2003:9003:9 HCAPLUS Full-text 140:195644 L48 ANSWER S OF 19 H ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Li, Jin-Shu; Wang, Hong; Zhang, Xian; Zhang, Hua-Shan CORPORATE SOURCE:

AUTHOR (S):

Department of Chemistry, Wuhan University, Wuhan, 43007, Peop. Rep. China Talanta (2003), 61(6), 797-802 CODEN: TLATA2; ISSN: 0039-9140 SOURCE:

Elsevier Science B.V. Journal DOCUMENT TYPE: PUBLISHER:

English Entered STN: 18 Nov 2003 LANGUAGE: ED Enter

A new synthesized fluorescent probe, 1,3,5,7-tetramethyl-8-(3',4'- diaminophenyl)-difluoroboradiaza-s-indacence (TMDABODIPY), was used to detect nitrite. When TMDABODIPY reacted with nitrite, a wesk fluorescent triabcale formed in 0.2 mol L-1 HC1 medium at room temperature The fluorescence quenching intensity was linear over a nitrite concentration of 0.04-0.32 µmol L-1 with a detection limit of 0.3 nmol L-1 (S/N = 3). The proposed method was applied to the determination of total amount of nitrite and nitrate (reduced by Zn powder) in human serum and urine of health and hypertension persons with recoveries of 91.83-101.80t.

9-5 (Biochemical Methods) 14797-55-8, Nitrate, analysis 14797-65-0, Nitrite, ខ្លួ

analysis

(spectrofluorometric determination of total amount of nitrite and nitrate in biol. sample with a new fluorescent probe 1,3,5,7-tetra-Me-8-(3',4'-diaminophenyl)-difluoroboradiaza-s-indacence)

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RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(spectrofluorometric determination of total amount of nitrite and nitrate in blol. sample with a new fluorescent probe 1,3,5,7 retra-Me-8-(1,4'-diaminophenyl)-difluoroboradiaza-s-indacence) 14797-65-0, Nitrite, analysis

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RL: ANT (Analyte); ANST (Analytical study) (spectrofluorometric determination of total amount of nitrite and nitrate in biol. sample with a new fluorescent probe 1,3,5,7-tetra-Me-8-(3',4-diaminophenyl)-difluoroboradiaza-s-indacence) 1479-65-0 HCAPLUS Nitrite (8CI, 9CI) (CA INDEX NAME)

3 3

- N-0

569674-54-0 RL: ARG (Analytical reagent use); ANST (Analytical study); USES H

(spectrofluorometric determination of total amount of nitrite and nitrate in biol. sample with a new fluorescent probe 1,3,5,7-tetra-Me-8-(3',4'-diaminophenyl)-difluoroboradiara-s-indacence) 569674-54-0 HCAPLUS

Boron, [4-[(3,5-dimethyl-1H-pyrrol-2-yl-kN)(3,5-dimethyl-2H-**3** 3

pyrrol-2-ylidene-kN)methyl]-1,2-benzenediaminatojdifluoro-, (T-4)- (9CI) (CA INDEX NAME)

THERE ARE 34 CITED REFERENCES AVALLABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 34 REFERENCE COUNT:

Methods and means for influencing intercellular communication and intercellular organelle transport, and use to test potential drug substances Gerdes, Hang-Hermann; Rustom, Amin Germany Germany PCT Int. Appl., 66 pp. HCAPLUS COPYRIGHT 2007 ACS on STN 2003:417962 HCAPLUS Full-text 138:396173 Patent German FAMILY ACC. NUM. COUNT: PATENT INFORMATION: L48 ANSWER 6 OF 19 H ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE

. 200211 22 48889 DATE WO 2002-EP13140 APPLICATION NO. 20030530 20040212 DATE CZ, KIND Ş WO 2003044524 WO 2003044524 PATENT NO.

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								NL, S	CZ, E							4			3	
DE 2001-10157475		AU 2002-359959			EP 2002-792793			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,	IK, CY, AL, TR, BG,	JP 2003-546103			US 2004-496126			DE 2001-10157475			WO 2002-EP13140	
20030618		20030610			20040908			IK, ES, FR, G	V, FI, RO, N	20050414			20050324							
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DE 10157475		AU 2002359959			EP 1454136			R: AT, BE,	PT, IE,	JP 2005509446			US 2005064534			PRIORITY APPLN. INFO.:				
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to 50 µm long or, in individual cases, longer, and which gpan between the cello. The invention further discloses a method in which the organizable transport between the cells is investigated. The methodol. of the invention may be carried out in the presence of a test substance, e.g. a potential therapeutic or pharmacol. active substance. ICK GOINMO33-68 [ICS GOINMO33-68]
1-1 (Pharmacology) The invention discloses a method for investigation of intercellular communication and intercellular transport, whereby, after isolation, cells are investigated for membrane tubes which contain F-actin and myosin, have a diameter of 50-400 nm, are generally up

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Section cross-reference(s): 9, 13 Flow cytometry 11

(FACS (fluorescence-activated cell sorting); methods for investigation of intercellular communication and intercellular organelle transport, and use in drug screening)

Infection H

(bacterial; methods for investigation of intercellular communication and intercellular organelle transport, and use in drug screening)
Antibacterial agents
Anticholesteremic agents
Antihypertensives H

Biological transport Antitumor agents Antiviral agents Apparatus

Cell cycle Cell membrane Drug screening

Endocytosis Pluorescence microscopy Pluorescent dyes

Gene therapy

Aypercholesterolemia

Luminescent substances Aypertension

Mental and behavioral disorders Metabolic disorders

Neoplasm Mitosis

Nervous system, disease Nervous system agents Pharmacology

Psychotropica
Transmission electron microscopy
(methodo for investigation of intercellular communication and
intercellular organelle transport, and use in drug screening)
11078-1-0, Filipin 1746-64-40, Phaltoidin, conjugates with FITC
or TRITC 41085-99-8 4765-04-8, DAPI
Latrunculin B 147961-22-2 148504-34-1, Calcein AM
216882-34-2, DiO 220524-71-0
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses) H

(methods for investigation of intercellular communication and intercellular organelle transport, and use in drug screening) 41085-99-8 216982-34-2, DIO 220524-71-0 RL: BUU (Biological use, unclassified); BIOL (Biological study);

H

(methods for investigation of intercellular communication and intercellular organelle transport, and use in drug screening) 41085-99-8 HCMPLUS
3H-Indollum, 2-[3-(1,3-dihydro-3,3-dimethyl-1-octadecyl-ZH-indol-2-yidene) -1-propen-1-yi]-3,3-dimethyl-1-octadecyl-, perchlorate (1:1) (CA INDEX NAME)

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CRN 40957-95-7 CMF C59 H97 N2

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CRN 14797-73-0 CMF C1 04

216982-34-2 HCAPLUS
Benzoxazolium, 3-(9Z,12Z)-9,1Z-octadecadienyl-2-[3-[3-[3-[3-[3-9,122-octadecadienyl-2-[3-[3-[3-[3-[3-6] 2]]-9,12-octadecadienyl-2-[3-[3-[3-[3-2]]-perchlorate [9C]] (GA INDEX NAME) **3** S

CRN 216982-33-1

CMF C53 H77 N2 O2

Double bond geometry as described by E or Z.

PAGE 1-B

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220524-71-0 HCAPLUS
Boron, [N-[2-(dimethylamino)ethyl]-5-[(3,5-dimethyl-2H-pyrrol-2-Z 2

ylidene-kN)methyl]-1H-pyrrole-2-propanamidato-kNl]difluoro-, (T-4)- (9CI) (CA INDEX NAME)

L48 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:207662
IIILE:
Multiparameter flow cytometry
of bacteria: implications for
diagnostics and therapeutics
Shapiro, Howard M. 10465-2513, USA
CORPORATE SOURCE:
CORPORATE SOURCE:
CODEN: CYTOMO; ISSN: 0196-4763
PUBLISHER:
DOCUMENT TYPE:
JOURNALLY
OUTPAIN

CRN 14797-73-0 CMF C1 04

Entered STM: 01 Apr 2001

B Flow cytometric studies of antibiotic susceptibilities of bacteria have typically measured a single fluorescence parameter, such as membrane potential (indicating viability), or permeability noutcied acid stains such as propidium (indicating nonviability), or permeability indicator reveals unanticipated synthemeously with a membrane potential dye and a permeability indicator reveals unanticipated complexity. Aliquots of cultures of three bacterial species were stained with the potential-sensitive dye hexamethyl-indocarboorpaine (DIICIO) and the permeability indicator TOP-RRO-1, in the presence and absence of a proton ionophore which collapses the potential gradient. They were analyzed using a dual-laser flow cytometer. Cultures grown under suboptimal conditions appear to contain cells that task up To-RRO-1 with emaintabining membrane potential, although some events showing both high DIICIO) if inorescence and high TO-RRO-1 fluorescence may represent clumps. Variations in metabolic patterns between species and within organisms much suboptimal culture conditions or following antibiotic exposure may make it difficult to develop flow cytometric clin. Assays for antibiotic susceptibility. However, transient permeabilization of otherwise resistant organisms by sublethal doses of antibiotics may make it possible to treat infections by such organisms with unitably derivalized, otherwise toxic mois; multiparameter cytorical metabolic permeabilization of therapy. 555-66-2, ccpp 25470-94-4 157199-63-8, TO-PRO-3 RL: BUU (Biological use, unclassified); BIOL (Biological study); RL: BUU (Biological use, unclassified); BIOL (Biological study); (fluorescent, multiparameter flow cytometry of bacteria and implications for diagnostics and (flow; multiparameter flow cytometry of bacteria and implications for diagnostics and (multiparameter flow cytometry of bacterie and implications for disgnostics and Biological transport (permeation, multiparameter flow cytometry of bacteria and implications for diagnostics and therapeutics) (multiparameter flow cytometry of bacteria and implications for diagnostics and (multiparameter flow cytometry of bacteria and implications for diagnostics and Membrane potential (biol., multiparameter flow cytometry of bacteria and implications for diagnostics and Section cross-reference(s): 1, 10 multiparameter flow cytometry bacteria therapeutics) 25470-94-4 157199-63-8, TO-PRO-3 9-5 (Biochemical Methods) Bacteria (Eubacteria) diagnostic therapeutic Staining, biological Membrane, biological 25470-94-4 HCAPLUS therapeutics) therapeutics) therapeutics) therapeutics) Antibiotics Fluorometry Cytometry Therapy LANGUAGE: ED Enter AB Flow H H H Ħ ႘ S. H H Ħ **2** 5

157199-63-8 HCAPLUS
Quinolinium, 4-[3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-1[3-(trimethylammonio)propyl]-, diiodide (9CI) (CA INDEX NAME) **2** 2

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE COUNT:

ICAPLUS COPYRIGHT 2007 ACS on STN
2001:168247 HCAPLUS FULL-text
144:18014
Method and device for counting cells in urine Gjelsnes. Oddbjorn; Ronning, Oystein Optoflow AS, Norway
PCT int. Appl., 13 pp.
CODEN: PIXXD2. L48 ANSWER 8 OF 19 HCAPLUS INVENTOR(S): PATENT ASSIGNEE(S): ACCESSION NUMBER: DOCUMENT NUMBER:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	8			KIND		DATE	:	- '	APPLICATION NO.	PLICATION NO.	NO	ģ	:	ā	DATE
WO 2001016595	10165	95		¥		20010308	308	•	£ 50	2000-NO286	10286	10			
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UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, TM, CH, CM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,

3H-Indolium, 2-[3-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1-propenyl]-1,3,3-trimethyl-, iodide (9CI) (CA INDEX NAME)

200002 200002 199909 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A1 20020227 EP 2000-959042 ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, WO 2000-NO286 NO 1999-4228 8 % DE, FI, DE, DK, BJ, CP, £ 5 R: AT, BB, C
SI, LT, I
PRIORITY APPLN. INFO.: CY, L BF, E EP 1181553

The invention regards a method and a device for measuring the number of cells in urine. A fixative, a buffer and a dye are added to the urine sample, which is then analyzed in 88

a device for measuring fluorescence. ICM G01N0033-493 ដ

ICS GOIN0033-50 9-1 (Biochemical Methods)

Cytometry ខ្ល

(apparatus, flow; method and device for counting cells in

Measuring apparatus (cytometers, flow; method and device for ä

counting cells in urine) Apparatus Ħ

Bacteria (Eubacteria)

Carriers

Cell membrane Cyanine dyes

Fluorescent substances

Fluorometers

Light scattering

Mixers (processing apparatus) Liquids

Mixing

Pipes and Tubes

Spectrometers

Staining, biological UV and visible spectroscopy Urine analysis

(method and device for counting cells in urine)
60-00-4, EDTA, biological studies 64-17-5, Ethanol, biological
studies 67-63-0, Isopropanol, biological studies 67-64-1,
Acetone, biological studies 77-86-1, Tris buffer 11129-12-7,
Borate 157199-63-8, TOPRO-3 H

RL: BUU (Biological use, unclassified); BIOL (Biological study);

USES

method and device for counting cells in urine) 157199-63-8, TOPRO-3

RL: BUU (Biological use, unclassified); BIOL (Biological study); H

(method and device for counting cells in urine)

157199-63-8 HCAPLUS
Quinolinium, 4-[3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-1[3-(trimethylammonio)propyl]-, diiodide (9CI) (CA INDEX NAME) **3** 3

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORWAT

REFERENCE COUNT:

HCAPLUS

Development of a vital fluorescent staining method for monitoring bacterial 10S COPYRIGHT 2007 ACS on STN 2000:724600 HCAPLUS Full-text 134:53325 L48 ANSWER 9 OF 19 1 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

transport in subsurface environments
Puller, Mark E.; Streger, Sheryl H.; Rothmel,
Randi K.; Mailloux, Brian J.; Hall, James A.;
Onstort, Tullis C.; Fredrickson, James K.;
Balkvill, David L.; Derlaun, Mary F.
Princeton Research Center, Envirogen, Inc.,
Lawrenceville, NJ, 08648, USA
Applied and Environmental Microbiology (2000),

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

66(10), 4486-4496 CODEN: AEMIDF, ISSN: 0099-2240 American Society for Microbiology Journal English DOCUMENT TYPE: LANGUAGE: ED Entered STI AB Previous b PUBLISHER:

Entered STN: 13 Oct 2000

Derected sint 13 oct 14000 to tatabase and adversed state of the physiol. Of stained cells. This research was undertaken to identify alternative fluorescent stains that do not adversely affect the transport or viability of bacteria. Initial work was performed with a groundwater isolate. Commonsa op. strain and of determine staining efficiencies and adverse side effects. 5-(And 6-)-carboxyfluorescein staining efficiencies and adverse side effects. 5-(And 6-)-carboxyfluorescein diacetate, succinimidyl seter (FDA/SE) efficiently stained bollol without cauring undesirable effects on cell adhesion or viability. Members of many other gram-neg gram-pos. bacterial genera were also effectively stained vith (FDA/SE. More than 95% of CTBA/SE. Stained Commonsa sp. strain DAOID calls incubated in artificial groundwater (under no-growth conditions) remained fluorescent for at least 28 days as determined by epifluorescent microscopy and flow cytometry. No differences in the survival and culturability of CTBA/SE stained Campana particles by epifluorescent microscopy. A distinguished from autofluorescing sediment particles by epifluorescence microscopy. A high throughput method using microplate spectrofluoremetry was developed, which had a detection limit of mid-105 CFDA-stained cells/ML, the detection limit of mid-105 CFDA-stained cells/ML, the detection limit of mid-105 CFDA-stained cells/ML, the detection limit for flow

cytometry was on the order of 1,000 cells/mi. The results of laboratory-scale bacterial transport expts. performed with intact sediment cores and nondividing DA001 cells revealed good agreement between the aqueous cell connes, determined by the microplate assay and those determined by other enumeration methods. This research indicates that CTMA/SS is very efficient for labeling cells for bacterial transport expres, and that it may be useful for other microbial ccol. research as well. ႘

9-5 (Biochemical Methods) Section cross-reference(s): 10, 61

- flow cytometry fluorescence staining microorganism groundwater Acinetobacter johnsonii ST

Bacillus subtilis

Cytophaga Escherichia coli

Fluorometry

Groundwaters

Klebsiella Microbial ecology

Micrococcus

Microorganism Myroides odoratus

Rahnella aquatilis Ralstonia eutropha Pseudomonas

Rhodococcus rhodochrous

Sphingomonas capsulata Streptomyces albus

(development of a vital fluorescent staining method for monitoring bacterial transport in subsurface

environments) Cytometry H

(flow, development of a vital fluorescent staining method for monitoring bacterial transport in subsurface

Staining, biological environments H

(fluorescent; development of a vital fluorescent staining method for monitoring bacterial transport in subsurface

H

168482-84-6, Calcein Blue AM RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study);

(Calcein Blue AM; development of a vital fluorescent staining method for monitoring bacterial transport in subsurface

65-61-2, Acridine orange 81-88-9, Rhodamine B 1720-32-7, 1,6-Diphenyl-1,3,5-hexatriene 41085-99-8, H

1,11-Dioccadecyl-3,3,3',3'-tetramethylindocarbocyanine perchlorate 47165-04-8, DAF 90217-02-0 114041-00-8, 4-(4-Chihexadecylaminolatryl)-N-methylpyridinium iodide 117557-83-2 13683-63-8, Spiro(isobensofuran-1/3H),9'-(9H)xanthenn-3-one, 3',6'-bis(acetyloxy)-5'-(chloromethyl)- 147963-22-2 148504-34-1, Calcein AM 110347-59-4 180003-59-2 186557-71-1 193136-58-4, Oregon Green 488 217199-26-3

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses) (development of a vital fluorescent staining method for monitoring bacterial transport in subsurface

41085-99-8, 1,1'-Dioctadecyl-3,3,3',3'-

H

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); terramethylindocarbocyanine perchlorate 180003-59-2 217199-26-3 217199-28-5 252752-40-2

(development of a vital fluorescent staining method for monitoring bacterial transport in subsurface USES (Uses)

environments)
14.1085-99-8 HCAPLUS
14.11dolium, 2-[3-(1,3-dihydro-3,3-dimethyl-1-octadecyl-2H-indol-2ylidene)-1-propen-1-yl]-3,3-dimethyl-1-octadecyl-, perchlorate (1:1)
(CA INDEX NAME) **3** 3

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CRN 40957-95-7 CMF C59 H97 N2

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14797-73-0 C1 04 CRN CMP

3 5

217199-26-3 HCAPLUS
Benzoxazolium, 3-octadecyl-2-(3-(3-octadecyl-5-(4-sulfophenyl)-2(3H)-benzoxazolyildene]-1-propenyl]-5-(4-sulfophenyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME) **≅** ₹

3 3

217199-28-5 HCAPLUS
3H.Indolium, 2-[3-[1,3-dihydro-3,3-dimethyl-1-octadecyl-6-phenyl-2H-indol-2-ylidene)-1-propenyl]-3,3-dimethyl-1-octadecyl-6-phenyl-, chozide [9C]) (CA INDEX NAME)

3 3

252752-40-2 HCAPLUS
3H-Indollum, 2-15-4(1,3-dihydro-3,,3-dimethyl-1-octadecyl-5-sulfo-2Hindol-2-ylideche)-1-propenyl-3,13-dimethyl-1-octadecyl-5-sulfo-,
inner salt (9CI) (CA INDEX NAME)

THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 22 REFERENCE COUNT:

membrane potential measurement in bacteria using diethyloxacarbocyanine and a ratiometric technique Novo, David; Perlmutter, Nancy G.; Hunt, Richard H.; Shapiro, Howard M. Department of Medicine, McMaster University, Hamilton, ON, Can. Cytometry (1999), 35(1), 55-63 (ODEN: CYTOMO; ISSN: 0196-4763 Wiley-Liss, Inc. Journal PLUS COPYRIGHT 2007 ACS on STN 1999:64345 HCAPLUS Full-text Accurate flow cytometric 130:308596 L48 ANSWER 10 OF 19 HCAPLUS ACCESSION NUMBER: 1999:1 DOCUMENT NUMBER: 130:31 TITLE: Accura CORPORATE SOURCE: AUTHOR (S):

English DOCUMENT TYPE: PUBLISHER:

SOURCE:

Background: Membrane potential (MP) plays a critical role in bacterial physiol.

Background: Membrane potential (MP) plays a critical role in bacterial physiol.

Existing methods for MP estination by flow cytometry are neither accurate nor precise, due in part to the heterogeneity of size of the particles analyzed. The ratio of a size-and MP-sensitive measurement, abound provide a better estimate of MP. Methods: Flow cytometry and spectrofilmonetry were used to detect red (488 - x60 mm) fluorescence associated with aggregates of diethyloxacarbocyanine (DiOC2(3)), which, in the monometic state, is normally green (488 - x30 mm) fluorescence associated with aggregates of fluorescence from stained bacteria predominantly reflects particle size, and is: rained pendent of MP, whereas red fluorescence is highly dependent on both MP and size. The ratio of red to green iluorescence provides a measure of MP that is and size. The ratio of red to green iluorescence provides a measure of MP that is a largely independent of call size, with a low coefficient of variation (CV).

Calibration with valinomycin and poteasium demonstrates that the method is accurate over the range from -50 mV through -120 mV, it also accurately tracks reversible redns. In MP produced by incubation at 4°C and vashing in gluose-free medium. Conclusions: In MP produced by incubation at 4°C and vashing in gluose-free medium. Conclusions: The rationetric technique for MP estimation using bloc2(3) is substantially more accurate and precise than those previously available, and may be useful in studies of Entered STN: 01 Feb 1999 LANGUAGE: ED Entero AB Backg

20766-56-7 HCAPLUS 3H-Indollum, 2-13-(1)-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-l-propenyll-1,3,2-trimethyl- (9Cl) (CA INDEX NAME) RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) RL: BUU (Biological use, unclassified); BIOL (Biological study); on microorganismu.
9-5 (Brothenical Methods)
9-5 (Brothenical Methods)
9-6 (Brothenical Methods)
membrane dye flow cyrometry bacteria
membrane potential; diethyloxacarbocyanine dye bacteria
membrane potential ratiometric technique (accurate flow cytometric membrane potential measurement in bacteria using diethyloxacarbocyanine and a ratiometric technique) (accurate flow cytometric membrane potential measurement in bacteria using diethyloxacarbocyanine and a ratiometric technique) (accurate flow cytometric membrane potential measurement in bacteria using diethyloxacarbocyanine membrane potential measurement in bacteria using diethyloxacarbocyanine and a ratiometric technique) 2076-56-7 4918-66-3 49221-03.0 54501-79-0 62054-48-2 98956-92-5 163969-03-7 223595-23-7 potential measurement in bacteria using diethyloxacarbocyanine and a ratiometric technique) accurate flow cytometric membrane (flow; accurate flow cytometric and a ratiometric technique) 20766-56-7 48198-86-3 48221-03-0 54501-79-0 62054-48-2 98896-92-5 163969-03-7 223585-33-7 Fluorescent dyes Fluorescent indicators Membrane potential USES (Uses) (biol. Cytometry H H H Ħ **3** 8 t ខ្លួ

bacterial physiol. and in investigations of the effects of antibiotics and other agents

Benzoxazolium, 3-methyl-2-[3-(3-methyl-2(3H)-benzoxazolylidene)-1-propenyl)- (9Cl) (CA INDEX NAME)

48198-86-3 HCAPLUS

28

48221-03-0 HCAPLUS 3H-Indolium, 2-[5-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3-pentadienyl]-1,3,3-trimethyl- (9CI) (CA INDEX NAME) 3 2

RN 54501-79-0 HCAPLUS
CN Benzoxazoljum, 3-hexyl-2-[3-(3-hexyl-2(3H)-benzoxazolylidene)-1-propenyl)- (9CI) (CA INDEX NAME)

RN 62054-48-2 HCAPLUS CN Benzothiazolium, 3-propyl-2-[5-(3-propyl-2(3H)-benzothiazolylidene)-1,3-pentadienyl]- (9CI) (CA INDEX NAME)

RN 98896-92-5 HCAPLUS CN 3H-Indolium, 2-[3-(1,3-dihydro-3,3-dimethyl-1-pentyl-2H-indol-2ylidene)-1-propenyl]-3,3-dimethyl-1-pentyl- (9CI) (CA INDEX NAME)

RN 163969-03-7 HCAPLUS
CN 3H-Indolium, 1-hexyl-2-[5-(1-hexyl-1,3-dihydro-3,3-dimethyl-2H-indol2-ylidene)-1,3-pentadienyl]-3,3-dimethyl- (9CI) (CA INDEX NAME)

RN 223585-23-7 HCAPLUS

CN Benzothiazólium, 3-hexyl-2-[5-(3-hexyl-2(3H)-benzothiazolylidene)-1,3-pentadienyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

L48 ANSWER 11 OF 19 HCA ACCESSION NUMBER: DOCUMENT NUMBER:	HCAPLUS COP 1997:4834 127:92411	PLUS COPYRIGHT 2007 1997:483438 HCAPLUS 127:92411	007 ACS on STN LUS <u>Full-text</u>
TITLE: INVENTOR(S):	Analyzer 1 Katayama, Masakazu	er for analy ma, Masayuk: zu	Analyzer for analyzing urine material components Atayama, Masayuki; Seshimo, Hiroyuki; Pukuda, Masakazu
PATENT ASSIGNEE(S): SOURCE:	Toa Med Eur. Pa	Toa Medical Elect: Eur. Pat. Appl.,	Too Medical Electronics Co., Ltd., Japan Eur. Pat. Appl., 28 pp.
DOCUMENT TYPE:	Patent		
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:	1	ı	
PATENT NO.	KIND	DATE	APPLICATION NO. DATE
	:		
	;		
EP 780679	3	19970625	EF 1996-402/90 199612
EP 780679	2	19991215	10
EP 780679	B1	20020814	
	H		
JP 09170980	4	19970630	JP 1995-350714
			199512
JP 3305181	B 2	20020722	
US 5757475	đ	19980526	US 1996-767783
			199612
CN 1159584	4	19970917	CN 1996-123290
			199612 19
	m	20030917	
PRIORITY APPLAN: INFO::			199512
			19

AB An analyzer for analyzing urine material components (e.g., blood cells, erythrocytes, casts, epithelial cells, bacteria, etc.) is provided, which comprises: a sheath flow cell for forming a sample stream by surrounding a sample liquid containing preliminary stained particles of the urine material components with a sheath fluid; a light source for illuminating the sample stream; a photodetector section for detecting optical information from the illuminated material component particles; and an analyzing section for analyzing the material components on the basis of the detected optical information; the analyzing section including a parameter extracting section for extracting a fluorescent light emission duration (Fluorescent light emission duration (Fluorescent light emission duration (Fluorescent section for the detected optical information, a distribution diagram generating section for generating an Focy-Flu scattergram, and a judging section for judging

whether or not a material component particle being analyzed is a cast, on the basis of location of a data point of the material component particle in the generated cattergram. The analyzer of the present invention allows for easy discrimination of caste from other urine material component particles for determination of the number of the caste. In addition, the analyzer can discriminate between inclusion casts and glass casts containing no inclusion for determination of the nos. of the inclusion casts and the glass casts. (Blochemical Methods)

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Section cross-reference(s): 13, 14, 73
urine particle cell component analyzer; bacteria detection
urine analyzer; plood cell detection urine analyzer; cast detection
Bacteria (Bubacter; erythrocyte detection urine analyzer hemolysis H

Clinical analyzers Blood cell

Epithelium

Erythrocyte

Hemolysis

Light scattering Light sources

Optical detectors Particles Urine analysis

(analyzer for analyzing urine material components) Staining, biological Stains, biological H

(fluorescent; analyzer for analyzing urine material components) 1219-45-8, Ethidium bromide 53273-93-7 (WES ANG (Analytical study); USES (UBes) H

(analyzer for analyzing urine material components) 53313-93-7

RL: ARG (Analytical reagent use); ANST (Analytical study); USES H

(analyzer for analyzing urine material components)

51213-90-7 HCAPLUS
BEREOXAZEOLIUM, 3-hexyl-2-[5-(3-hexyl-2(3H)-benzoxazolylidene)-1,3perteodienyll-, iodide (9CI) (CA INDEX NAME) **3** 5

#3=13-13=15-15=U-15

HCAPLUS COPYRIGHT 2007 ACS on STN 1997:483437 HCAPLUS Full:text 127:92410 ANSWER 12 OF 19 ACCESSION NUMBER: DOCUMENT NUMBER:

Analyzer for analyzing urine material components Nakamoto, Hiroyuki; Katayama, Masayuki Toa Medical Electronics Co., Ltd., Japan; Sysmex INVENTOR(S): PATENT ASSIGNEE(S):

Eur. Pat. Appl., 27 pp. CODEN: EPXXDW Patent English Corp.

SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

DATE	199612	e 1	199512 19		199611 13 199612	17	19 199512 19
APPLICATION NO.	EP 1996-402789		JP 1995-350713	TW 1996-85113826	US 1996-767784	CN 1996-123291	JP 1995-350713 A
DATE	19970625 E			20020729 20020321 T	19980526 U	19970917 C	ל
KIND	72	н	4	в 83	4	4	
. PATENT NO.	EP 780678	EP 780678 EP 780678 R: DE, FR, GB,	JP 09170979	JP 3308441 TW 480337	US 5757476	CN 1159585	PRIORITY APPLN. INPO.:

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ICM GOINOOIS-14 9-1 (Biochemical Methods) ដូខូ

Section cross-reference(s): 13, 14, 73
uxine particle cell component analyzer; bacteria detection
urine analyzer; blood cell detection urine analyzer; crystal
detection urine analyzer; erythrocyce detection urine analyzer
hemolysia, cast detection urine analyzer
Bacteria (Bubacteria) ST

Blood cell H

Clinical analyzers Crystals

Epithelium Hemolysis

Light scattering Light sources Optical detectors

Particles

(analyzer for analyzing urine material components) Staining, biological Stains, biological Ħ

(fluorescent; analyzer for analyzing urine material components)

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RL: ARG (Analytical reagent use); ANST (Analytical study); USES (analyzer for analyzing urine material components) 53213-93-7 H

(Uses)

(analyzer for analyzing urine material components)
53213-93-7 HCARLUS
BENEXOXAZOLUM, 3-hexyl-2-[5-(3-hexyl-2(3H)-benzoxazolylidene)-1,3-pentadienyll-, iodide (9CI) (CA INDEX NAME) **3** 3

nponents ; Sysmex			DATE	199612	;	199611	199611	199612	17	19
PLUS COPYRIGHT 2007 ACS on STN 1997:481433 HCAPLUS Full-text 127:92409 Analyzer analyzing urine material components Rateyama, Masayuki TOM Medical Electronics Co., Ltd., Japan; Sysmex	27 pp.		APPLICATION NO.	2791		TW 1996-85113825	JP 1996-318025	US 1996-767782	CN 1996-123289	JP 1995-350712 A
PPUS COPYRIGHT 2007 1997:483431 HCAPLUS 1127:92409 Analyzer for analyzin Katayama, Masayuki Toa Medical Electroni	it. Appl., EPXXDW	. 	DATE	62	19991215 20030917	20010607	19970905	20020812 19980324	19970917	
HCAPLUS COP 1997:4834 127:92409 Analyzer Katayama, Toa Medic	Corpora Eur. Pa CODEN:	Patent English 1	KIND	ą	5 5 5		4	9 A	4	
L48 ANSWER 13 OF 19 HCJ ACCESSION NUMBER: DOCUMENT NUMBER: ITITLE: INVENTOR(S): PATENT ASSIGNEE(S):	SOURCE:	DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:	PATENT NO.		EP 780680 EP 780680 D. D. EP GB	:	JP 09229926	JP 3313291 US 5731867	CN 1159583	PRIORITY APPLN. INFO.:

04 Aug 1997 Entered STN: a

An analyzer for analyzing urine material components (e.g., blood cells, erythrocytes, casts, crystal, bacteria, etc.) includes: a a neath flow cell for forming a sample stream containing the urine material, components; a light source for illuminating the sample stream; a section for detecting optical information from the illuminated material component particles; and an analyzing section for analyzing the material components; the analyzing section for analyzing section for analyzing section for analyzing section including section for analyzing ergentation disprances; the analyzing section including section for extracting parameters from the detected optical information, a section for generating first and secret distribution disprances, an inputting section for clustering the material component particles according to the kind of material component of define a domain for each of the material component and a section for computing the number of the first and second distribution disagrams, and a section for computing the number of the first distribution disagram inputted from the inputting section and a domain in the second distribution disagram efficient from the inputting section and a domain in the second distribution disagram defined by the domain determining section. In accordance with the present invention, hemolytic-state erythrocytes can be discriminated from bacteria.

Therefore, the number of the hemolytic-state erythrocytes and the total number of erythrocytes can be determined with high accuracy.

9-1 (Biochemical Methods) ICM G01N0015-14 ដូខូ

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Section cross-reference(s): 11, 14, 73
using agraticle cell component analyzer; bacteria detection
urine analyzer; blood cell detection urine analyzer; crystal
detection urine analyzer; cast detection urine analyzer; erythrocyte
Bacteria (Rubacteria)

Blood cell

H

Clinical analyzers Epithelium

Hemolysis

Light scattering Light sources

Optical detectors

Streptobacillus

Urine analysis

(analyzer for analyzing urine material components) Staining, biological Stains, biological

H 11

(fluorescent, analyzer for analyzing urine material components) 1239-45-8, Ethidium bromide 53213-93-7 RB: ARG (Analytical reagent use); ANST (Analytical study); USES (analyzer for analyzing urine material components) (Uses)

RL: ARG (Analytical reagent use); ANST (Analytical study); USES 53213-93-7

H

(Uses)

(analyzer for analyzing urine material components) 53131-93-7 HCARDA-1-2-15-(3-hexyl-2(3H)-benzoxazolylidene)-1,3-pentadienyll-, iodide (9CI) (CA INDEX NAME)

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Mohr, Gerhard J.; Murkovic, Ivana; Lehmann, Frank, Haider, Christian, Wolfbeis, Otto S. Karl-Franzene University, Institute for Organic Chemistry, Heinrich St. 28, 8010, Graz, Austria Sensors and Actuators, B: Chemical (1997), B39(1-3), 239-245. CODEN: SABCEB; ISSN: 0925-4005 Application of potential-sensitive fluorescent dyes in anion- and cation-sensitive polymer PLUS COPYRIGHT 2007 ACS on STN 1997:424389 HCAPLUS Full-text ANSWER 14 OF 19 HCAPLUS L48 ANSWER 14 OF ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: AUTHOR (S): SOURCE:

PUBLISHER: DOCUMENT TYPE:

English 09 Jul 199 Entered STN:

reported. In particular, mitrate- and mitrate-responsive as well as K- and Hggennitive polymer membranes were developed. In general, membranes are composed of a
planticited polymer, an ion carrier and a fluorescent dye which optically transduces
the extraction of the analyte ion in the polymer matrix. The nitrate sensor membrane
is composed of rhodamine B octatory seter and the anion-exchange caralyte is
tridodecy/methylamonium chloride. Both are dissolved in planticized PVC. The nitrite
tensor is based on the same dye and the same polymer matrix but with
bensylbis (triphenylphosphine) PG(II) chloride acting as the nitrite-selective carrier.
The K sensor membrane consists of the carbocyanine dye DioCis(3), valinomycin and a
lipophilic Dorate sair. The Hg sensor is based on the irreversible decomposation of
borate by Hg ions and is composed of DioCis(3) and borate only. All sensor membranes
were studied in terms of signal change, sensitivity, stability, limits of detection and
the selectivity for the analyte over interferent ions. The mechanism of the sensor
membranes is discussed from changes of the microsenvironment of solvatochromic dyes,
which result in analytical Chemistry)
Section cross-reference(8): 38 The applicability of two potential-sensitive dyes (PSDs) for optical sensing of ions is LANGUAGE: ED Entere AB The a

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7419-97-6, Mercury, analysis 7440-09-7, Potassium, analysis 14797-55-8, Nitrate, analysis 14797-65-0, Nitrite,

analysis RL: ANT (Analyte); ANST (Analytical study)

(application of potential-sensitive fluorescent dyes in anionand cation-sensitive polymer membranes) 161433-32-5, DiOC16(3)

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(as potential-sensitive fluorescent dyes in potassium- and

RL: ARG (Analytical reagent use); ANST (Analytical study); USES

mercury-sensitive polymer membranes) 14797-65-0, Nitrite, analysis H

RL: ANT (Analyte); ANST (Analytical study) (application of potential-sensitive fluorescent dyes in anionand cation-sensitive polymer membranes)

3 3

14797-65-0 HCAPLUS Nitrite (8CI, 9CI) (CA INDEX NAME)

9 2

RL: ARG (Analytical reagent use); ANST (Analytical study); USES 161433-32-5, DiOC16(3) H

(as potential sensitive fluorescent dyes in potassium- and mercury-sensitive polymer membranes)
RN 161433-32-5 HCAPLUS (Uses)

Benzoxazolium, 3-hexadecyl-2-[3-(3-hexadecyl-2(3H)benzoxazolylidene)-1-propenyl]-, perchlorate (9Cl) (CA INDEX NAME) z

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CRN 161433-31-4 CMF C49 H77 N2 O2

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CRN 14797-73-0 CMF C1 04

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 22 REFERENCE COUNT:

PLUS COPYRIGHT 2007 ACS on STN 1997:59903 HCAPLUS Full-text HCAPLUS ANSWER 15 OF 19 L48 ANSWER 15 OF ACCESSION NUMBER: DOCUMENT NUMBER:

Anion selective optodes: Development of a

fluorescent fiber optic sensor for the determination of nitrite activity Barker, Susan L. R.; Shortreed, Michael R.; AUTHOR (S):

Kopelman, Raoul

CORPORATE SOURCE:

Department Chemistry, University Michigan, Ann Arbor, MI, 48109-1055, USA.
Proceedings of SPIB-The International Society for Optical Engineering (1996), 2836(Chemical, Blochemical, and Environmental Piber Sensors VIII), 144-110.
CODEN: PSISDG; ISSN: 0277-786X

SOURCE:

SPIE-The International Society for Optical

Engineering DOCUMENT TYPE:

PUBLISHER:

English Entered STN: 27 Jan 1997 LANGUAGE: ED Ente AB The

The response of state of the art anion optodes often can not be described in a the remonstrate phase of the membrane phase of such optodes changes during a titration Inocrporating lipophilic charge sites in the anion optode membranes provides a constant ionic strength in the membrane phase, the ability to measure anion activities, and a more thermodynamically described some. This configuration was used to create a micrometer-sized mitrite-selective optode. Recent elucidation of the many biol. roles of mirric oxide (NO) has spurred interest in sensitive and selective detection of this mol. In biol. systems NO is converted to NO2-within 30 s and the biol. concentration of NO3-is normally on the micromolar level. The optode the authors prepared contains a selective vitamin B12 derivative ionophore, a fluorescent chromolomophore (ETH 243 or ETH 539), and lipophilic charge sites. These components are entrapped in a highly plasticized PVC matrix which is

placed on the distal end of the fiber. Sensor characteristics such as limit of detection and reversibility are presented.

79-2 (Inorganic Analytical Chemistry)

III 10102-43-9, Nitric oxide, analysis 14797-65-0, Nitrite,
analysis analysis 14797-65-0, Nitrite,
analysis by the coxide analysis 14797-65-0, Nitrite,
analysis by the coxide analysis 14797-65-0, Nitrite,
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II 14797-65-0, Nitrite, analysis

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14797-65-0 HCAPLUS Nitrite (8CI, 9CI) (CA INDEX NAME)

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41085-99-8, 1,1'-Dioctadecyl-3,3,3'.
Letramethylindoarbocyanine perchlorate
Et. ARG (Analytical reagent use), DEV (Device component use); ANST
(Analytical study); USES (Usea)
(Ionophore; fluorescent fiber optic sensor for determination of nitrite
activity based on)
41085-99-8 HCAPLUS
34.fndolium, 2-13-(1,3-dihydro-3,3-dimethyl-1-octadecyl-2H-indol-2ylidens)-1-propen-1-yl]-3,3-dimethyl-1-octadecyl-2H-indol-2(CA INDEX NAME) ₹ 8

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CRN 40957-95-7 CMF CS9 H97 N2

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CRN 14797-73-0 CMF C1 04

REFERENCE COUNT:	16	THERE ARE 1 FOR THIS RE IN THE RE F	6 CIT CORD. ORMAT	THERE ARE 16 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORWAT	SS AVAILA	BLE ABLE
L48 ANSWER 16 OF 19 HC ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:	1996:7 126:16 Fluore	APLUS COPYRIGHT 2007 1996:702021 HCAPLUS 126:16494 Pluorescent labeling		ACS on STN Full-text using microparticles	ırticles	with
INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:	Singer, Molecula U.S., 26		L., Hav Inc., tin-p	Victoria L., Haugland, Richard ar Probes, Inc., USA 5 pp., Contin-part of U.S. 5,	hard P.	. 692.
DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:	Patent English 11	th di				
PATENT NO.	KIND	DATE	AP	APPLICATION NO		DATE
5573909	•	9611		1994-247108		
US 5326692	4	19940705	SD	1992-882299		199405 20
532669	В	19960430				199205 13
	H	19980715	¥	1993-91381		199305
US 5723218	4	19980303	S .	1995-484151		199506
JP 2004002851	4	20040108	g,	2003-128429		200305
JP 3689412 PRIORITY APPLN. INFO.:	82	20050831	O	1992-882299	ğ	199205 13
			sn	1990-509360	3	199004 16
			Sn	1990-629466	83	199012 18
			Sin	1991-786767	3	199111 01
			as	1992-843360	3	199202 25
			us	1993-28319	Ş	199303 08
			OS	1993-38918	\$	199303 29

199304 08	199305 07	199405 20	199405 20	199405 20	199405 20	199501 19	199502
\$	\$	\$	\$	\$	72	A2	2
US 1993-45758	JP 1994-502684	US 1994-246790	US 1994-246847	US 1994-247013	US 1994-247108	US 1995-375360	US 1995-384945

MARPAT 126:16494 OTHER SOURCE(S): ED Entered STN: AB The inventio

Entered STN: 27 Nov 1996

microparticles used to practice the invention have 22 components: an external substance or coating that is selective for each target material and an internal mixture of microparticle that is controlled through selection of appropriate dyes. The unique microparticles are combined with a sample thought to contain the target material(s) so that the microparticles label the target materials. The sample is then optionally illuminated, resulting in fluorescence of the microparticles that is used to detect 21 target materials. Examples are given of the detection of DNA, mRNA, cell surface receptors, centromeres on human chromosomes, cytochrome oxidase, nuclear antigens, etc. TCM C1200001-68 multiple fluorescent dyes. The mixture of dyes is a series of 22 fluorescent dyes having overlapping excitation and emission spectra allowing efficient energy transfer from the excitation wavelength of the first dye in the series, transfer through the dyes in the series and re-emission as an optical signal at the emission wavelength of last dye in the series, resulting in a desired effective Stokes shift for the The invention relates to methods for labeling or detecting 21 target materials using surface-coated fluorescent microparticles with unique

G01N0033-545 ICS

INCL 435006000 CC 9-5 (Bioc

9-5 (Biochemical Methods)

Section cross-reference(s): 15, 73, 80

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(flow, fluorescent labeling using microparticles with controllable Stokes shift)

Animal cell

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Coliphage Ml3 Energy transfer

Fibroblast Fluorescent dyes

mmunoassay

Lymphocyte

Microparticles
Northern blot hybridization
(fluorescent labeling using microparticles with controllable Stokes shift)

Amino acids, analysis Bacteria (Eubacteria) H

Biopolymers

Glycolipids

Glycoproteins, general, analysis

Haptens

Monosaccharides

Nucleic acids Nucleotides, analysis Oligonucleotides

Peptides, analysis Polysaccharides, analysis | Proteins, general, analysis Receptors

RL: ANT (Analyte); ANST (Analytical study) (fluorescent labeling using microparticles with controllable 154793-49-4P 154793-50-7P 154827-68-6P Stokes shift) 21658-70-8P 126368-67-0P 152072-93-0P

H

RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(fluorescent labeling using microparticles with controllable

Stokes shift) 21658-70-8P 126368-67-0P 152072-93-0P 154793-49-4P 154793-50-7P H

RL: ARG (Analytical reagent use); RCT (Reactant); SPN (Synthetic preparation); ARCT (Malytical subdy); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(fluorescent labeling using microparticles with controllable

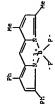
Stokes shift)

Boron, [2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-KN)methyl]-3,5dimethyl-1H-pyrrolato-kN]difluoro-, (T-4)- (9CI) (CA INDEX **3** 5



126168-67-0 HCAPLUS

Boron, [2-[(3,5-dimethyl-2H-pyrrol-2-ylidene-kN)methyl]-3,5diphenyl-1H-pyrrolato-kN]difluoro-, (T-4)- (9CI) (CA INDEX NAME) **3** 8



RN 152072-93-0 HCAPLUS
CN Boron, [5-[(3,5-diphenyl-2H-pyrrol-2-ylidene-xN)methyl]-2,2'-bi-lH-pyrrolato-xNl)difluoro-, (T-4)- (9C1) (CA INDEX NAME)

RN 154793-49-4 HCAPLUS
CN Boron, [3,5-dimethyl-2-[(2H-pyrrol-2-ylidene-kN)methyl]-1Hpyrrolato-kN]difluoro-, (T-4)- (9CI) (CA INDEX NAME)



RN 154793-50-7 HCAPLUS
CN Boron, [2-[(3,5-diphenyl-2H-pyrrol-2-ylidene-kN)methyl]-3,5-diphenyl-1H-pyrrolato-kN|difluoro-, (T-4)- (9CI) (CA INDEX NAME)



L48 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2007 ACS on STN
1996.506431 HCAPLUS FULL-EXT
DOCUMENT NUMBER: 125:16573
TITLE: PLOTESCENT VIABLILTY ASSAY USING
CYCLIC-SUBSTITUTE AND THE PROPERTY OF THE PATENT ASSIGNEE(S): Molecular Probes, Inc., USA
SOUNCE: CODEN, U.S., 26 pp., Cont. of U. S. 5,436,134.
PATENT TYPE: PATENT

LANGUAGE: English FAMILY ACC. NUM. COUNT: 8 PATENT INFORMATION:

DATE -	199311	199307	12	199311	199404	199404	199404	199404	199407	200506	200506	200510	20 B2 199304	A1 199307 12	A2 199311 01	A 199311 08	W 199404 13	A3 199407 12
APPLICATION NO.	US 1993-148847	1993-90890	1993-146328	CA 1994-2133765	1994-914173	LI, NL MT 1994-9173				2005-167583	2005-167584	2005-306416	1993-47683	1993-90890	1993-146328	1993-148847	1994-US4127	JP 1994-159824
DATE APE	19960709 US	19950725 US	19960813 US	19941027 CA	19991109 19951011 EP	Ħ	•			20051006 JP	20051215 JP	20060427 JP	sn	SD	SO	Sn	Ø.	g.
KIND D	4	*	, A	. 14 11.	A. 15	B1 20 CH, DE, ES, 1				4 4	A 20	A 20						
ATENT	US 5534416	US 5436134	US 5545535	CA 2133765	CA 2133765 EP 675924	EP 675924 R: AT, BE, AT 210701		-		JP 2005272479	JP 2005344121	JP 2006111884	ORITY APPLN. INFO.					

OTHER SOURCE(S): MARPAT 125:162751 ED Entered STN: 24 Aug 1996 G1

AB The invention relates to a method of analyzing the viability of a sample of cells using an aqueous solution comprising two filorescent dyes. Dye I has the formula I where R2 is C16 alkyl; Z-18 a biol. compatible counterion; X18 0, S. S., or NR1S, where R15 is H or C1-6 alkyl; Or CRISHI, where R16 and R17, which may be the same or different, are independently H or C1-6 alkyl, or the carbons of R16 and R17 taken in combination complete a 5- or 6-membered saturated firing; and the benzazolium is optionally further substituted; n = 0, 1, or 2; Y is CR1CR4; p and m = 0 or 1, such that p + m = 1, R18 a C1-6 alkyl, C1-6 balyalkynly, C1-6 balkynly, C1-6 palkenyl, C1-6 palkynly, C1-6 palkenyl, a suitable absorption wavelength, and the fluorescent response is detected to distinguish viable and nonviable cells based on the fluorescent response. 8

C12Q0001-04; C12Q0001-68; C07H0001-00

436034000 INCL

9-5 (Biochemical Methods)

Section cross-reference(s): 28, 41 cell viability detn fluorescent nucleic acid viability detn fluorescent detn viability and minal cell viability and betteria viability; and cell viability and cell viability. S

Animal cell Bacteria H

Escherichia coli

Fibroblast

Lymphocyte

Staphylococcus aureus (fluorescent cell viability assay using cyclic-substituted unsym.

cyanine dyes)

Cytome

H

(flow, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes)

biological Dyes, cyanine Staining, bi H

Stains, biological

(fluorescent, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes) Bacteria

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(gram-neg., fluorescent cell viability assay using

Cyclic-substituted unsym. cyanine dyes) 165196-17-17-70 3 RL: ARG (Analytical reagent use); ANST (Analytical study); USES RL: ARG (Analytical reagent use); ANST (Analytical study); USES RL: ARG (Analytical reagent use); ANST (Analytical study); USES RL: ARG (Analytical reagent use); ANST (Analytical study); USES (gram-pos., fluorescent cell viability assay using (YO-PRO 3; fluorescent cell viability assay using (TO-PRO 3; fluorescent cell viability assay using (TO-TO 3; fluorescent cell viability assay using (YO-YO 3, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes) 157199-62-7, Yo-pro-3 cyclic-substituted unsym. cyanine dyes) 156312-20-8, Yoyo-3 cyclic-substituted unsym. cyanine dyes} 157199-63-8, To-pro-3 cyclic-substituted unsym. cyanine dyes) cyclic-substituted unsym. cyanine dyes) 157199-63-8, To-pro-3 Bacteria (Uses) (Uses) H H H H H

(TO-PRO 3, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes)
157199-618 HCAPLUS
Quinolinlum, 4-13-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-1[3-(trimethylammonio)propyl]-, diiodide (9CI) (CA INDEX NAME)

₹ 3

RL: ARG (Analytical reagent use); ANST (Analytical study); USES

H

166196-17-4, TO-TO 3 RL: ARG (Analytical study); USES RL: ARG (Analytical reagent use); (TO-TO 3, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes) Ħ

Quinolinium, 1,11-[1,3-propanediylbis [(dimethyliminio)-3,1-propanediyl]|bis[4-[3-(3-methyl-2(3H)-benzothiazolylidene)-1-propenyl]-, tetraiodide (9CI) (CA INDEX NAME) **3** 3

PAGE 1-A

157199-62-7, Yo-pro-3 RL: ARG (Analytical reagent use); ANST (Analytical study); USES

H

(YO-PRO 3; fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes) 157199-62-7 HCAPLUS Quinolinium, 4-(13-(13-methyl-2(3H)-benzoxazolylidene)-1-propenyl]-1-(3-(trimethylammonio)propyl]-, diiodide (9CI) (CA INDEX NAME)

23

156312-20-8, Yoyo-3 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) H

.voca, (YO-YO 3, fluorescent cell viability assay using cyclic-substituted unsym. cyanine dyes) cyclic-substituted unsym. cyanine dyes) Us6312-20-8 HCAPUND (Ouinolinum, 1,1'-[1,3-propanediylb]) (dimethyliminio)-3,1-propanediyll) is [4-[3-(3-methyl-2(3H)-bmzoxaxolylidene)-1-propenyl]. tetraiodide (9CI) (CA INDEX NAME) 28

PAGE 1-A

L48 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1995:990121 HCAPLUS FULL-CEXT 124:81103 Plow current Plow curre AUTHOR (S):

using lipophilic dye PRH-2 for adhesion of Vibrio cholerate to intestine 407 cells Traguchi, Harbuiko, Gaski, Takako, Yamaguchi, Hiroyuki, Kamiya, Shigeru Department Hisrobiology, Kyotin University School Medicine, Mitaka, Tokyo, 181, Japan Microbiology and Immunology (1995), 19(11), CORPORATE SOURCE:

SOURCE:

CODEN: MIMDV, ISSN: 0385-5600 Center for Academic Publications Japan Journal PUBLISHER: DOCUMENT TYPE:

A comparative study of indirect and direct flow cytometric anal. for adherence of Vibrio cholerae to intestine 407 cells was performed. The direct flow cytometric anal. employed the lipophilic dye PKH-2. It was concluded that direct flow cytometry using the lipophilic dye PKH-2 is useful and convenient for analyzing bacteria-host cell interactions since it does not require any specific antibody as the first antibody. English Entered STN: 19 Dec 1995 LANGUAGE: ED Enter AB A com

9-4 (Biochemical Methods ႘

Section cross-reference(s): 14 the state of the state adhesion Vibrio flow evicometry PKH2; lipophilic dye flow evicometry bacteria adhesion adhesion; fluorescent dye staning bacteria adhesion ST

intestine H

Staining, biological Stains, biological Vibrio cholerae

(flow cytometric anal. using lipophilic dye PKH-2 for adhesion of Vibrio cholerae to intestine 407 cells) Adhesion H

(bio., flow cytometric anal. using lipophilic dye PKH-2 for adhesion of Vibrio cholerae to intestine 407 cells)

(flow, flow cytometric anal. using lipophilic dye PKH-2 for adhesion of Vibrio cholerae to intestine Cytometry

407 cells) 145697-07. PRH-2 RL: ARC (Analytical reagent use); ANST (Analytical study); USBS

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(Uses)

(flow cytometric anal. using lipophilic dye PKH-2 for adhesion of Vibrio cholerae to intestine 407 cells) 145687.07-6, PKH-2

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RL: ARG (Analytical reagent use); ANST (Analytical study); USES

(Uses)
(flow cytometric anal. using lipophilic dye
(flow cytometric anal. using lipophilic dye
PKH-2 for adhesion of Vibrio cholerae to intestine 407 cells)
145687-07-6 HCAPLUS

Benzoxazolium, 2-[3-(3-docosyl-2(3H)-benzoxazolylidene)-1-propenyl]-3-propyl-, iodide (9CI) (CA INDEX NAME) S S

	urine		DATE	199205	3	199105	1	199205	3	199205	199410 26	19910S 14	199205
ACS on STN Full-text	r analyzing cells in ijiwara, Chiyose is Co., Ltd., Japan p.		APPLICATION NO.	EP 1992-108078		JP 1991-109267		CA 1992-2068471	AU 1992-16226	1994-129662	# 797-11091 dt		US 1992-881514 B1
HCAPLUS COPYRIGHT 2007 ACS on STN 1993:35449 HCAPLUS Full-text 118:35449	Reagent and method for analyzing cells in urine maxameto, Hiroywik, Fujiwara, Chiyose Toa Medical Electronics Co., Ltd., Japan Eur. Pet. Appl., 15 pp.	Patent English 1	KIND DATE AP	A1 19921119 EP	B1 19960904 IT, NL	19921125	20000731		C 20031007 A 19921119 AU	A 19971202 US		;	SN
148 ANSWER 19 OF 19 HCAP: ACCESSION NUMBER: DOCUMENT NUMBER:	: (s	DOCUMENT TYPE: LANGUAGE: EAMLY ACC. NUM. COUNT: 1 PATENT INFORMATION:	PATENT NO. K	2	EP 513762 R: DE, FR, GB, I		3070968	CA 2068471	CA 2068471 AU 9216226	US 5693484	· Cant Made		

Entered STN: 03 Feb 1993
A reagent and a method for analyzing cells in urine are provided. The reagent comprises soln(s): containing a fluorescent dye, an osmolarity-compensating agent, and a buffer. The method involves diluting a urine sample and staining cells therein with the 8 2

reagent, irradiating the cells with light in the violet or blue wavelength region by using a flow cytometer, and measuring the forward- or side-scattered light and flowescence from the cells. Leukocytes and epthelial rells could be classaffied in urine using a yellow-brown reagent (pH 8.5) containing neutral red, Na propionate, and Tris and Tricine buffers. An Ar ion laser emitting excitation light of 488 nm was employed as the light source; fluorescence of 2520 nm was detected.

ICS C1200001-68
9-5 Biochemical Methods)
Arianal cell
Bacteria

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Erythrocyte Leukocyte

(anal. of, in urine, fluorescent dye reagent for) Cytometry H

(Flow, in cell anal. in urine with fluorescent dye

reagent) Ħ

(fluorescent, reagent containing, for analyzing cells in urine)
75.65-12, Actidine Orange 81889, Rhodamine B 553-24-2, Neutral
Red 989-38-8, Rhodamine G 1239-45-8, Ethidium bromide
1745-32-0 2381-86-3, Cresyl Fact Violet 2465-27-2, Auramine O
2465-29-4, Actidine Red 18 1026-97-5 4208-80-4, Basic Yellow 11
465-00-5, Autrazon Red 68 12627-64-4, Rhodamine S 13391-59-0,
Darrow Red 18195-13-4 1372-87-1, Bosin Y
18403-49-1 1847-87-2, Cyanosine 25535-16-4, Propidium
iodide 12835-24-8 62669-66-3, Rhodamine 19 perchlorate
62669-70-9, Rhodamine 123 84195-77-7 103405-57-8 144746-54-3,
Acronol Phloxine Red H

H

3 3

(respent containing, for analyzing cells in urine)
16195-14 18403-49-1 32835-24-8
RL: ANST (Analyzical study)
16195-11-4 HCAPLOS
16195-11-4 HCAPLOS
16195-11-4 HCAPLOS
16195-11-4 HCAPLOS
1-propenyl]- (9CI) (CA INDEX NAME)

18403-49-1 HCAPLUS
Benzothiazolium, 3-ethyl-2-[3-(3-ethyl-2(3H)-benzothiazolylidene)-1-propenyl}- (9CI) (CA INDEX NAME) 3 2

32815-24-8 HCAPLUS
Benzoxazolium, 3-ethyl-2-[3-(3-ethyl-2(3H)-benzothiazolylidene)-1propenyl]-, iodide (9CI) (CA INDEX NAME) 3 S



=> file home FILE 'HOME' ENTERED AT 14:43:40 ON 22 MAR 2007

30 33 39 41 MLEVEL IS CLASS AT 24 3 DEFAULT ECLEVEL IS LIMITED VAR G1=H/23/30

VAR G2=H/10/22

VAR G3=H/10

VAR G4=H/40/42/30

REP G2=(L-2) 28-8 29-11

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 21

CONNECT IS E2 RC AT 24

CONNECT IS E2 RC AT 25

CONNECT IS E2 RC AT 26

CONNECT IS E2 RC AT 29

CONNECT IS E3 RC AT 29

CONNECT IS E3 RC AT 39

CONNECT IS E3 RC AT 31

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 49

STEREO ATTRIBUTES: NONE L7

Page 1-A

Page 2-A VAR G1=16/26 VAR G2=16/50/19/10 REP G3=10-1) 7-2 8-4 VAR G4=5/0/74 VAR G5=H/77/78 NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMIT

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 69 GRAPH ATTRIBUTES:

STEREO ATTRIBUTES: NONE
L8 5602 SEA FILE-REGISTRY SSS FUL L7
L41 12 SEA FILE-REGISTRY SUB-L8 SSS FUL L6

58 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

12 ANSWERS

=> d his nofile

(FILE 'HOME' ENTERED AT 11:59:14 ON 22 MAR 2007)

E CYTOMETRY/CT
29 SBA ABB-ON PLUG-ON CYTOMETRY (L) FLOW+ALL/CT
10 SBA ABB-ON PLUG-ON CYTOMETRY (L) FLOW/CT
306 SBA ABB-ON PLUG-ON CYTOMETERS+ALL/CT
E CYTOMETRS (L) FLOW/CT
127448 SBA ABB-ON PLUG-ON DYES/CW FILE 'HCAPLUS' ENTERED AT 11:59:27 ON 22 MAR 2007 25

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57 SEA ABBBON PLU-ON (1803-49-8[B IG OR 1012-91-9] BILOR
57 SEA ABBBON PLU-ON (1803-49-8[B IG OR 1012-91-9] BILOR
1018-92-0/BIC OR 107-35-7/BIC OR 1107-95-9] BILOR 107-96-0/BIC OR 107-96-0/BIC OR 1105-97-7/BIC OR 1107-17-6/BIC OR 110-17-6/BIC OR 1100-17-6/BIC OR 1100-1
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N PLU-GN MICROB17/OBI
N PLU-GN EUGACTERI7/OBI
N PLU-GN STAIN?/OBI (L) BIOLOGICAL/CM
N PLU-GN DYES/CM
N PLU-GN (L25 OR L31)
N PLU-GN (L25 OR L26) AND (L32 OR L31)
N PLU-GN (L25 OR L26) AND (L32 OR L31)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AT 12:59:50 ON 22 MAR 2007
PLU-0N SAMASHTHA Y7/AU
PLU-ON INOUE J7/AU
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7 SEA ABB=ON PLU-ON L23
4814 SEA ABB=ON PLU-ON L3
1764 SEA ABB=ON PLU-ON L13
10134 SEA ABB=ON PLU-ON FLOW/OBI (L) CYTOWET?/OBI
9233 SEA ABB=ON PLU-ON LIGHT SCATTERING/CT
E LIGHT SCATTERING/CT
E B33-ALL
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1 SEA ABB=ON PLU=ON 189148-49-0/RN
2 SEA ABB=ON PLU=ON LIO OR LII OR L22
                                                             FILE 'REGISTRY' ENTERED AT 12:21:17 ON 22 MAR 2007 ACTIVATE TODAY/Q
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1 SEA ABB=ON PLU=ON L19 AND L20
                                                                                                                                                                                                                     A SSS FUL L7

15. GUB-L8 SSS SAM L6

15. ABB-GN PLU-GN 189148-49-0/CRN

15. ABB-GN PLU-GN 1499.195/RID

15. ABB-GN PLU-GN L15. AND X/ELS

15. ABB-GN PLU-GN NITRITE/CN
319858 SEA ABB=ON PLU=ON DYES+ALL/CT
                                                                                          ACTIVAL.

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ACTIVATE HA667/A

S602 SEA SSS FUL L7

1 SEA SUB-L8 SSS SP

1 SEA ABB-GN FUL*

11 SEA ABB-GN PLU*

1 SEA ABB-GN PLU*
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161913 SEA ABB-ON PLU-ON
13812 SEA ABB-ON PLU-ON
11982 SEA ABB-ON PLU-ON
12748 SEA ABB-ON PLU-ON
24.19 SEA ABB-ON PLU-ON
(L27 OR L28)
17 SEA ABB-ON PLU-ON
(L27 OR L28) AND (L
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4681 SEA ABB-ON I
2265 SEA ABB-ON I
288 SEA ABB-ON I
1 SEA ABB-ON I
SEL RN
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125
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L26 AND L36 L14 L38 AND (L25 OR L26)

PLU=ON PLU=ON PLU=ON

5 SEA ABB.ON F 17315 SEA ABB.ON F 6 SEA ABB.ON F

L34 L38 L39

L13 FLOW/OBI (L) CYTOMET?/OB LIGHT SCATTERING/CT BACTERI?/OBI	MICROBY/OBI BUBACTERI7/OBI STAIN?/OBI (L) BIOLOGICA	DYES/CW (L25 OR L26) AND (L32 OR L30 OR L31) L14 L28 AND (L25 OR L26)	116 C	AL2 NOT (L45 OR L46) (L36 OR L39) NOT (L45 SODIUM HYDROXIDE/CN 1119-97-7/RN SULFAMIC ACID/CN CITRIC ACID/CN L49 OR SODIUM HYDROXIDE/	LSO OR TETRADECYL OR TETRADECTYL TRIMETHYL LS1 OR SULFAMIC LS2 OR CITRIC ACID/OB1 POLYAMETHINE ACID/OB1	L53 AND L57 L54 AND L57 L55 AND L57 L56 AND L57 L58 OR L59 OR L60 OR L62 NOT (L45 OR L46 OR
PLU=ON L		•		PLU=ON L	PLU=ON L IDE/OBI OR PLU=ON L PLU=ON L	
	ABB=ON ABB=ON ABB=ON	ABB=ON ABB=ON OR L28) ABB=ON ABB=ON	SUB=L8 ABB=ON ABB=ON L26) ABB=ON ABB=ON	ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON	ABB=ON ABB=ON ABB=ON ABB=ON	ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON ABB=ON
SEA FILE*HCAPLUS ABB=ON SEA FILE*HCAPLUS ABB=ON INTERMATE ABB=ON SEA FILE*HCAPLUS ABB=ON SEA FILE*HCAPLUS ABB=ON	SEA FILE-HCAPLUS SEA FILE-HCAPLUS SEA FILE-HCAPLUS L/CW		A FILE-REGISTRY SUB-L8 A FILE-HCAPLUS ABB=ON A FILE-HCAPLUS ABB=ON B) AND (L25 OR L26) A FILE-HCAPLUS ABB=ON A FILE-HCAPLUS ABB=ON A FILE-HCAPLUS ABB=ON	SEA FILE-HCAPUS ABB=ON SEA FILE-HCAPUS ABB=ON OR L46 OR L47) SEA FILE-REGISTRY ABB=ON SEA FILE-REGISTRY ABB=ON SEA FILE-REGISTRY ABB=ON OR ABB ABB ABB ABB ABB ABB ABB ABB ABB AB	SEA FIGHTAL ANYONING BEGIN PLUGON TRIMETHYL ANYONINGH BROMIDE/OBI SEA FILE-HCAPLUS ABBGON PLUGON ACID/OBI ACID/OBI SEA FILE-HCAPLUS ABBGON PLUGON ACID/OBI SEA FILE-HCAPLUS ABBGON PLUGON SEA FILE-HCAPLUS ABBGON PLUGON SEA FILE-HCAPLUS ABBGON PLUGON	
1764 SEA 10334 SEA 1 9233 SEA 375223 SEA				2 SEA 19 SEA 0R L 1 SEA 1 SEA 1 SEA 1 SEA 1 SEA 1 SEA	2296 SEA TRIM AMMO 4994 SEA 67085 SEA	
126 127 128 129			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	L41 L48 L51 L53 L53	LS 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15.58 16.00 16.10 16.20 16.30 16.30

Text searching with polymethine dye, sulfamic acid, tetradecyl trimethyl ammonium salt ϵ citric acid-NaoH

=> d 163 ibib ed abs hitind hitstr 1-2

L63 ANSWER 1 OF 2 HCA	L63 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:	1996:229017 HCAPLUS Full-text
DOCUMENT NUMBER:	124:346248
TITLE:	Color changing systems using pan paint
	compositions and markers
INVENTOR(S):	Miller, Richard E.; Dereamus, Robert C.
PATENT ASSIGNEE(S):	Binney and Smith Inc., USA
SOURCE:	U.S., 21 pp., Cont in-part of U.S. Ser.
	270,454.
	CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	

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PATENT INFORMATION:

DATE	199410	03 199207	31 199306	199307	199407	199407	199407	05 199506 23	199509		199510 03 1 199207 31	A2 199306 16	A2 199307 16	A2 199407 05	A2 199407 05	A2 199407 05	A2 199407 05	199410
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APPLICATION NO.	US 1994-317212	US 1992-923308	US 1993-78722	US 1993-89503	US 1994-270998	US 1994-270485	US 1994-270454	CA 1995-2152543	EP 1995-202595	JP 1995-256617	US 1992-923308	US 1993-78722	US 1993-89503	US 1994-270454	US 1994-270485	US 1994-270940	US 1994-270998	US 1994-317212
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DATE	19960312	19930803	19941004	19940705	19951226	19960123	19960206	19960404	20000104	19970102 3, IT 19960910								
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PATENT NO.	US 5498282	US 5232494	US 5352282	US 5326388	US 54783,82	US 5486228	US 5489331	CA 2152543	CA 2152543 EP 705887	EP 705887 R: BE, DE, ES, JP 08231889	PRIORITY APPLN. INFO.:							

Entered STN: 19 Apr 1996 88

characteristic color in the presence of a pH 54 and an acid such that the overcolor coloring composition pH 54, wherein 1 or both of the coloring composition pH 54, wherein 1 or both of the coloring composition pH 54, wherein 10.00, glycerin 20.00, Nuosept 95 0.50, premix (containing H-Pyrol 96.04, PVP K10 1.98, and Troyaan Polyphase P-100 1.981) 2.50, Acid Red-92 1.001 in conjunction with a green pan paint overcolor containing PEG 4500 Acid Pluracol P-2010 5.50, premix 6.50, water 1.50, Carbowax 20000 3.00, Igepal CO 630, 0.50, citric acid 0.0, Acid Green-3 10.00. The color-changing system comprises an undercolor pan paint coloring composition comprising 20-99.94 water soluble resin and 0.1-204 water soluble undercolor dve whose coloring ability is destroyed in the presence of a pW 210 and/or in the presence of a reducing ability is destroyed in the presence of cappaints agent; and an overcolor composition comprising a colorant cappale of maintaining its characteristic color in the presence of a pW 210 and/or in the presence of a reducing agent, and a base such that the pH of the overcolor composition 210 and/or a reducing agent. Also, the color-changing system comprises an undercolor coloring composition comprising 20-99.99 water soluble resin and 0.1-20% water soluble undercolor dye whose coloring ability is destroyed in the presence of a pH 54; and an overcolor coloring composition comprising a colorant capable of maintaining its

ICM C09D0011-02

42-12 (Coatings, Inks, and Related Products) 106-22B INCL

color change system pan paint marker; acid dye overcolor color change system; marker undercolor acid dye; low pH sensitive dye marker; citric acid overcolor pan paint; dye acid stable overcolor pan paint; xanthene dye pH sensitive undercolor marker, polymethine dye acid stable

H

overcolor 77-92-9. Citric Acid, uses RL: TRW (Technical or engineered material use); USES (Uses) RL: TRW (Technical or engineered material use); USES (Uses) (pH modifying agent; color changing systems using pan paint

H

77-92-5, Cirric Acid, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(pH modifying agent; color changing systems using pan paint compns. and markers)

Z &

77-92-9 HCAPLUS 1,2,3-Propanetricarboxylic acid, 2-hydroxy- (CA INDEX NAME)

СО2H HO2C-- CH2-- СН2-- СО2H

L63 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1965:493388 HCAPLUS Full-text 63:93388 63:17152£ DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

Photometric determination of chioropicin Asmas, E.; Kuchenbecker, H. Tech. Univ., Berlin Presentus' Zeitschrift fuer Analytische Chemie (1955). 1313(4). 266-73 AUTHOR(S): CORPORATE SOURCE: SOURCE:

Journal

DOCUMENT TYPE: LANGUAGE: ED Entered STI AB NO2CC13 (1

Entered STN: 22 Apr 2001
NO2CC13 (I) reacts with CSHSN, KCN, and NaOH to yield a yellow substance which reacts
with barbituric acid in acid medium to form a polymethine dye. Either the dye (578 mµ)
or the yellow substance (405 mµ) can be measured for the determination of I.
2 (Analytical Chemistry)

150749-57-8/BI OR 13461-40-2/BI OR 157199-61-8/BI OR 166196-17-4/BI OR 189148-6-0-7) PH OR 24147-96-27/BI OR 3155060-22-7/BI OR 31659-61-3/BI OR 316544-71-0/PH OR 51544-72-1/PH OR 50-21-5/BI OR 50-81-7/PI OR 52-90-4/BI OR 5129-14-6/BI OR 56-61-0/PI OR 56-89-9/BI OR 52-86-6/PI OR 52-9/PI OR 53-80-9/PI OR 56-80-9/PI OR 53-80-9/PI OR 56-80-9/PI OR 53-80-9/PI OR 53-80-3/PI OR 53-80-9/PI OR 53-80-3/PI OR 53-74-1/PI OR 53-81-1/PI

Spectra, visible and ultraviolet 28

(of polymethine dyes, from chloropicrin reaction product with barbituric acid, RCN, pyridine or Na 67-52-7, Barbituric acid 110-86-1, Pyridine 1310-73-2, Sodium hydroxide Sodium hydroxide (Na(OH)) (9CI) (CA INDEX NAME) (in trichloronitromethane determination) 1310-73-2, Sodium hydroxide (in trichloronitromethane determination) hydroxide) 1310-73-2 H 2 2 H

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FILE 'REGISTRY' ENTERED AT 13:01:04 ON 22 MAR 2007
57 SEA ABB-00' PUL-04' (7803-49-6/B10 R 10182-91-9/B1 OR 10182-91-9/B1 OR 1018-292-0/B1 OR 107-35-7/B1 OR 107-95-9/B1 OR 107-96-0/B 1 OR 108-98-5/B1 OR 110-15-6/B1 OR 110-17-8/B1 OR 119-97-7/B1 OR 110-73-2/B1 OR 1139-97-7/B1 OR 1110-73-2/B1 OR 1139-97-9/B1 OR 14797-65-0/B1 OR 15053-09-5/B1 OR IKEUCHI Y?/AU L15 AND L16 AND L17 AND L18 E CYTOMETRY/CT
29 SEA ABB-GO PLU-GN CYTOMETRY (L) FLOW-ALL/CT
10 SEA ABB-GN PLU-GN CYTOMETRY (L) FLOW/CT
E CYTOMETRS/CT
306 SEA ABB-GN PLU-GN CYTOMETERS+ALL/CT
E CYTOMETRS (L) PLOW/CT
E CYTOMETRS (L) PLOW/CT
127448 SEA ABB-GN PLU-GN DYES/CW FILE 'REGISTRY' ENTERED AT 12:21:17 ON 22 MAR 2007 ACTIVATE TODAY/O FILE 'HCAPLUS' ENTERED AT 11:59:27 ON 22 MAR 2007 ON 22 MAR 2007 (FILE 'HOME' ENTERED AT 11::59:14 ON 22 MAR 2007) KAWASHIMA Y?/AU INOUE J?/AU 189148-49-0/CRN 1409.195/RID 189148-50-3/RN L12 AND X/ELS NITRITE/CN 319858 SEA ABB=ON PLU=ON DYES+ALL/CT SAKAI Y?/AU AT 12:59:50 1 SEA SUB=L8 SSS SAM L6 1 SEA ABB=ON PLU=ON 18 PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON PLU=ON STR ACTIVATE HA667/A SEA SSS FUL L7 HCAPLUS' ENTERED A'
4681 SEA ABB-ON PI
2265 SEA ABB-ON PI
958 SEA ABB-ON PI
288 SEA ABB-ON PI
1 SEA ABB-ON PI
SEA RB-ON PI
SEA ABB-ON PI
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SEA RB-ON PI
SEA RB-ON PI 1 SEA ABB=ON 3127 SEA ABB=ON 2974 SEA ABB=ON 1 SEA ABB=ON E DYES/CT FILE 22222 120 E13 <u>r</u>e ĽS ជ 3

OR 6899-10-1/B1 OR 70-18-8/B1 OR 70-47-3/B1 OR 74-89-5/B I OR 7440-44-6/B1 OR 7558-79-4/B1 OR 75433-27-7/B1 OR 76433-29-9/B1 OR 7447-01-0/B1 OR 77-92-9/B1 OR 7708-34-9/ B1 OR 7778-77-0/B1 OR 7782-44-7/B1 OR 7782-99-2/B1 OR 877-24-7/B1 OR 89-65-6/B1)	FILE 'HCAPLUS' ENTERED AT 13:01:16 ON 22 MAR 2007 1 SEA ABB=ON PLU=ON L19 AND L20	FILE 'RECISTRY' ENTERED AT 14:04:02 ON 22 MAR 2007 1 SEA ABB=ON PLU=ON 189148-49-0/RN 2 SEA ABB=ON PLU=ON L10 OR L11 OR L22	LUS' ENTERED AT 14:04 SEA ABB=ON PLU=ON	4814 SEA ABB=ON PLU=ON L8 1764 SEA ABB=ON PLU=ON L13	10334	B LIGHT SCATTERING/CT E R3+ALL	375223 SEA ABB=ON. PLU=ON	361911 SEA ABB=ON PLU=ON MICROB7/OBI 35812 SEA ABB=ON PLU=ON EUBACTER17/OBI	11982 SEA ABB-ON PLU-ON	12/448 SEA ABB-ON PLU-ON DIES/CW 2439 SEA ABB-ON PLU-ON (L25 OR L26) AND	95 SEA ABB=ON PLU=ON (L25 OR L26) AND (L32 OR	PLU=ON (L25 OR L26)	(L27 OR L28) AND (L29 OR L30	SEA ABBRON PLUBON	6 SEA ABB=ON PLU=ON	FILE 'REGISTRY' ENTERED AT 14:23:56 ON 22 MAR 2007	1 SEA SUB-L8 SSS SAM L6	12 SEA SUB#L8 SAV HA753A/	FILE 'HCAPLUS' ENTERED AT 14:26:02 ON 22 MAR 2007	9 SEA ABB-ON PLU-ON L41	7 SEA ABB=ON PLU=ON L42 NOT (L36 OR L39) 8 SEA ABB=ON PLU=ON (L15 OR L16 OR L17 OR L18) AND (L25	OR L26)	8 SEA ABB=ON PLU=ON (L19 OR	6 SEA ABB#ON PLU#ON L24 NOT L45	2 SEA ABBEON PLUEON L42 NOT (145 OK L46) 19 SEA ABBEON PLUEON (136 OK L39) NOT (145 OK L46 OK L47)	19 SEA ABB=ON PLU=ON (L36 OR L39) NOT (L45 OR L46 OR L47)	FILE 'REGISTRY' ENTERED AT 14:5	1 SEA ABB-ON PLU-ON	1 SEA ABBEON FLUEUN	1 SEA ABB-ON PLU-ON CITRIC ACID/CN
	L21	L22 L23	124	L25 L26	L27 L28		1.29	ខ្លួក	132		L35	136	:	3 5	E S		140	141		142	2 2		Ľ	2.0	33	ŗ. 8		149	123	152

PILE 'HCAPLUS' ENTERED AT 14:58:18 ON 22 MAR 2007
99303 SEA ABB-ON PLU-ON L49 OR SODIUM HYDROXIDE/OBI OR
NAOH/OBI
2296 SEA ABB-ON PLU-ON L50 OR TETRADECTY IRIMETHYL AMMONIUM/OBI
4994 SEA ABB-ON PLU-ON L50 OR SULFAMIC ACID/OBI
67085 SEA ABB-ON PLU-ON L52 OR CITRIC ACID/OBI
1515 SEA ABB-ON PLU-ON DOLYMETHIRE DYEY/OBI
1 SEA ABB-ON PLU-ON DOLYMETHIRE DYEY/OBI

154 155 155 157

				148)
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4 AND L57	LSS AND LS7	6 AND 1.57	8 OR 159 OR 160 OR 161	2 NOT (L45 OR L46 OR L47
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PLU=ON	PLU=ON	PLU=ON	PLU=ON	PLU=ON
ABB=ON	SEA ABB=ON	ABB=ON	ABB=ON	ABB=ON
SEA	SEA	SEA	SEA	SEA
0	0	-	N	N

160 161 162 163